



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

DEC 9 2013

Ms. Deborah A. S. Hoag, P.E.
Environmental Division Manager
City of Reading
815 Washington Street
Reading, Pennsylvania 19601-3690

Re: Pretreatment Program
NPDES No. PA0026549

Dear Ms. Hoag:

Thank you for the submission of the City's annual pretreatment report for calendar year 2012. Please note that the City's NPDES permit requires that the report be submitted by March 31 of each year. However, the City's annual report for calendar year 2012 was submitted on April 24, 2013. Failure to submit the report by March 31 of each year is a violation of the City's NPDES permit and could subject the City to enforcement including penalties. This is the third consecutive year that the City's report was submitted late, and this increases the likelihood of enforcement.

Thank you also for summarizing the influent, effluent, and sludge monitoring data on the spreadsheet provided by EPA. Use of the spreadsheet helps significantly with our processing of the data. For future reports, it would be helpful if all of the influent and effluent mercury data were included in the spreadsheet. Since the City conducted more than monthly monitoring for mercury, additional columns must be added to the spreadsheet to include all of the City's mercury data. The instructions sent with the spreadsheet should provide an explanation of how to add columns for the additional data, although if you need additional assistance please let me know. In addition, if more than one sample for the same sample point is collected on the same date, the results of the sampling for that date should be averaged and the average value entered in the spreadsheet. This occurred for the sludge on several sample dates and the City entered both results in the spreadsheet rather than averaging them. The instructions sent with the spreadsheet include a specific explanation on how to average the results where some or all of the data is reported as non-detectable.

The City's report indicates that it assessed a significant number of penalties against the users for violations that occurred during the year. As occurs with many POTWs, not all of the penalties were paid as of the date of the report. In general, where not all of the assessed penalties were paid at the time of the report, follow-up information needs to be provided to show whether the penalties were eventually paid. Providing this update with the subsequent annual report is sufficient, although it can also be provided with any response to the EPA comments on the



report. To date I have not received an update on the unpaid penalties listed in the City's annual reports for calendar years 2008, 2009, 2010, and 2011. Enclosed for your use is a set of tables showing the penalties that were listed as not having been paid for each of these years along with calendar year 2012. Please provide an update on the status of payment of these penalties, including penalties shown as not yet paid in the 2012 report.

The narrative portion of the report included permit language regarding spills and slug discharges that has been included in the user permits since April 2010 and indicates that this language had been previously submitted to EPA. Please note that on February 7, 2011 I responded to Jacqueline Hendricks by email with comments on that language as well as other language in the City's user permits. To date I have not received a response to those comments. The permit language updates is one of the outstanding issues from the pretreatment audit conducted in 2005 and discussed below.

In reviewing the 2012 annual reports, EPA has continued the program in which specific pretreatment implementation items for each approved program are being tracked. For calendar year 2012, a measure that tracks outstanding responses to prior EPA correspondence has been added (measure 19). All other measures remain the same, although a few clarifying changes have been made to the description of measures 9 and 10 on the measures instruction sheet. Enclosed is a sheet that includes the data that I have collected for the Reading pretreatment program for calendar year 2012, as well as a sheet that provides some additional information on the categories listed. An "Instruction Sheet" that provides more detail on each measure (with any changes from the 2011 measures indicated in bold) is also enclosed. Generally, the category ratings are not directly related to compliance, but "Category 1" would be considered the best rating for each measure. Finally, a summary of all of the POTW data collected so far for calendar year 2011 has been included to allow you to compare your program to the ratings achieved by POTWs in calendar year 2011.

Measure 1 (influent data) is listed in category 2 for mercury and in category 3 for molybdenum. These exceedances continue the pattern of exceedances that have occurred over the last several years (see enclosed *List of Exceedances* report), and the City will need to take steps to address these pollutant levels.

Measure 3 (sludge data) is listed in category 2 for molybdenum. Again, these exceedances continue a pattern of exceedances that have occurred over several years, and the City should take steps to address these exceedances as well.

Measure 4 (data/local limits) is listed in category 2 for mercury and in category 3 for molybdenum. For mercury, the City's NPDES limit was relaxed in 2004 but the local limit evaluation based on this limit was never updated to reflect the new permit limit. This is likely at least partly the cause of the influent goal exceedances for mercury. Please note that the influent and effluent goals for the City's program cannot be updated unless the City conducts a reevaluation of the local limit based on the updated permit limit. For molybdenum, the corresponding influent and sludge exceedances suggest that the City's treatment plant is accepting too much of this pollutant. Since the City's currently approved local limits are almost

15 years old, it is possible that they are not stringent enough to adequately control molybdenum discharges. Although the City's annual report indicates that it believes that the elevated levels of molybdenum are the result of cooling tower chemicals used in the summer months, there is no description of actions by the City to identify specific users within the system. One place to start may be a comparison of the monitoring data at the two influent sample points to determine if there might be a more confined location where the higher levels of molybdenum originate.

Measures 7, 8, 10, and 11 (SNC rates) are all listed in category 2. The City's report indicates that it has assessed and collected over \$70,000 in penalties for violations during the calendar year 2012 reporting period. While the user significant noncompliance rates have come down in the last several years, the City still needs to focus on its enforcement efforts since three of the users that had significant noncompliance violations in calendar year 2012 also had significant noncompliance violations in calendar years 2011 and 2010. It is especially important that the City address these users that have been in significant noncompliance for long periods of time, and it is probably appropriate for the City to make greater use of compliance schedules as part of its enforcement actions with significantly higher penalties for failure to return to and maintain compliance after the schedule is completed.

Measure 14 (permit issuance) is listed in category 3 because nine of the City's significant industrial user permits expired during calendar year 2012 and were not reissued as of the date of the report. Note that this does not count the two permits that are listed in the report as having expired on December 31, 2012 which would also need to be reissued. The City is required to reissue the user permits as they expire, and failure to do so would be considered a violation of the NPDES permit requirement to implement the pretreatment program.

Measure 16 (local limits) is listed in category 2. The City submitted a reevaluation of its local limits on May 5, 2006. I provided comments on that reevaluation on June 28, 2006 but the City never responded to those comments. Addressing those comments and finalizing the limits evaluation could address the influent exceedances discussed above and help ensure that the City's local limits are protective of the treatment plant and its discharges. Note that the City's NPDES permit that was reissued on November 25, 2013 requires submission of a new reevaluation of the local limits within one year of permit issuance (November 25, 2014). The permit also includes a requirement that the City submit a list of pollutants and sampling plan for the reevaluation within three months of permit issuance (February 25, 2014). For your use, I have enclosed guidance on the sampling plan.

Measure 18 (streamlining) is listed in category 3. Although the City conducted an assessment of its current legal authority and determined that revisions are necessary to comply with the requirements of EPA's October 2005 amendments to the General Pretreatment Regulations, to date no revised ordinance has been submitted. The City must revise its ordinance quickly to ensure that it has sufficient authority to implement its pretreatment program as required. As suggested in the past, it is recommended that the City provide a draft of the ordinance revisions prior to adoption. Note that failure to update its approved pretreatment program to satisfy the requirements of the General Pretreatment Regulations would be considered a violation of the City's NPDES permit. In addition, if the City is unable to implement required



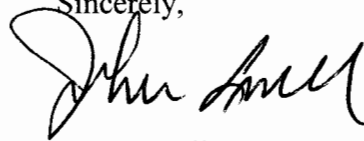
elements of its pretreatment program because it fails to update its legal authority, the failure to implement the program would still be considered an additional violation of the City's NPDES permit.

Measure 19 (timeliness of responses) is listed in category 3. In addition to failing to respond to my comments on the City's 2006 local limits evaluation as noted above, the City has also not responded to my comments on its annual pretreatment report for calendar year 2011, and has not completely addressed the required actions from my pretreatment program audit conducted in 2005. For your use, I have enclosed a copy of the audit action items table showing my understanding of the actions taken by the City in response to the required actions from the audit. The City must provide a response to each of these issues. Items where the "Completion Date" column is blank are the unresolved issues.

Measure 20 (overall rating) is listed in category 3 with a rating of 71.9. This is lower than the City's rating for calendar year 2011, and is well below the average rating received by POTWs in 2011 (87.2). Addressing the local limits, streamlining, and audit issues discussed above would help increase the City's rating, but to significantly improve the rating the City will need to address the significant noncompliance rates along with the influent and sludge exceedances.

Please provide a response to the issues raised above. If you have any questions regarding this matter, please contact me at 215-814-5790.

Sincerely,



John Lovell
Pretreatment Coordinator
NPDES Permits and Enforcement (3WP41)
Water Protection Division

Enclosures

cc: Maria Bebenek, PADEP Southcentral Region (w/out enclosures)
Ron Furlan, PADEP Central Office (w/out enclosures)



Reading Unpaid Penalties

2008

User	Date	Amount
Neversink Brewery	2/7/08	\$100
St Joseph Medical Center	2/7/08	\$500
Crescent Brass	9/2/08	\$342.03
Muhlenburg Foods	9/5/08	\$200
	12/10/08	\$600
Paragon Optical	9/16/08	\$1000

2009

User	Date	Amount
Termaco USA	2/20/09	\$100
	12/18/09	\$100
Reading Eagle Company	3/19/09	\$500
Remcon Plastics	3/19/09	\$100
Sealed Air Corp.	3/19/09	\$100
Sweet Streets Desserts	3/19/09	\$200
Aramark Uniform Services	3/24/09	\$800
Berks Packing	3/24/09	\$500
George Weston Bakeries	3/24/09	\$200
IFS Industries	3/24/09	\$350
National/Yorgey's Cleaners	3/24/09	\$400
	8/24/09	\$400

2010

User	Date	Amount
National/Yorgey's Cleaners	2/26/10	\$250
	6/8/10	\$500
Neversink Brewery	2/24/10	\$100
Paragon Optical	3/8/10	\$450
	6/8/10	\$200
	9/15/10	\$100
	12/28/10	\$200

2011

User	Date	Amount
Carpenter Corporation	1/5/11	\$200
Exide Corporation	1/5/11	\$100
	3/7/11	\$1000
Crescent Brass	3/4/11	\$1550 (\$550 paid)
Hoffman Industries	6/20/11	\$200
Paragon Optical	6/16/11	\$100
	9/27/11	\$100
Van Bennett	9/21/11	\$100
	12/29/11	\$100
Termaco USA	12/29/11	\$1000 (\$900 paid)

2012

User	Date	Amount
Paragon Optical	1/4/12	\$600
	4/12/12	\$100
Crescent Brass Manufacturing	4/13/12	\$265.05
Robeson Township	10/22/12	\$2991.85



CITY OF READING, PENNSYLVANIA

DEBORAH A. S. HOAG
UTILITIES DIVISION MANGER

PUBLIC WORKS
503 N. 6TH STREET
READING, PA 19601
(610) 655-6121

RECEIVED
EPA REGION III

APR 29 2013

NPDES PERMITS BRANCH
(3WP41)

April 24, 2013

Mr. John Lovell (3WP41)
Office of Municipal Assistance
US Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia PA 19103-2029

Dear Mr. Lovell:

As required by the City of Reading's NPDES Permit Number PA0026549, the City is to submit an annual report covering developments of the City's Pretreatment Program. Enclosed please find the annual report covering the period of January 1, 2012 to December 31, 2012.

Please do not hesitate to contact me at 610-655-6121 should you have any questions on the report.

Thank you for your attention.

Sincerely,

A handwritten signature in cursive script, appearing to read "Deborah A. S. Hoag".

Deborah A. S. Hoag, PE
Utilities Division Manger

DASH/ts
Enclosure

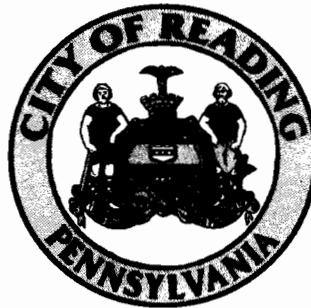
C: Charles M. Jones, P.E., Director of Public Works
Jeffrey Hill, Environmental Program Coordinator
File



RECEIVED
EPA REGION III
APR 29 2013
NPDES PERMITS BRANCH
(3WP41)

CITY OF READING

ANNUAL PRETREATMENT REPORT



REPORTING YEAR 2012

PRETREATMENT PERFORMANCE SUMMARY

RECEIVED
EPA REGION III

APR 29 2013

NPDES PERMITS BRANCH
(3WP41)

I. General Information

Control Authority Name: City of Reading WWTP

Address: 815 Washington Street

City : Reading

State : PA

Zip : 19601-3690

Contact Person: Deborah A.S. Hoag, P.E.

Contact Title: Utilities Division Manager

Contact Telephone Number: (610) 655-6121

E-mail address: Deborah.Hoag@readingpa.org

NPDES Nos: PA 0026549

Permit Issuance Date: 05/01/01

Expiration Date: 05/01/06

Reporting Period: 1/1/12 to 12/31/12

Total Categorical IUs (CIUs): 10

Total "Middle Tier" CIUs (MTCIUs): 0

Total Nonsignificant CIUs (NSCIUs): 0

Total Significant Noncategorical IUs (SNIUs): 26

II. Compliance Monitoring Program

1. No. of SIUs with Current Control Documents.....36
2. No. of SIU Facilities Inspected..... 36
3. No. of SIU Facilities Sampled..... 36
4. No. of SIUs Submitting Self-Monitoring Reports..... 36

III. Significant Industrial User Compliance

1. No. of SIUs Violating a Compliance Schedule/No. On a Schedule..... 0/0
2. No. of SIUs in SNC for the July to December Period..... 4
3. No. of SIUs in SNC At Any Time During Calendar Year..... 7
4. No. of SIUs in SNC That Were Also in SNC During The Previous
Calendar Year..... 3
5. No. of NSCIUs that violated any standards or requirements..... N/A

IV. Enforcement Actions

1. Notices/Letters of Violation Issued to SIUs..... 90
2. Enforcable Compliance Schedules Issued to SIUs..... 0
3. Civil/Criminal Suits Filed..... 0
4. No. of SIUs from which Penalties have been Collected.....24
5. Other Actions (sewer bans, etc.)..... 0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge. (See Part B.V of the instructions)

Deborah A. S. Hoag, P.E.

Name of Authorized Representative


Signature

Utilities Division Manager

Title (Print)

March 31, 2013

Date

Pretreatment Annual Report

Part A – Pretreatment Performance Summary

I – General Information

Significant Users

At the end of the reporting period, the City of Reading had 36 significant industrial users, classifying 10 as categorical users and 26 as non-categorical users. Last year the City reported the same number of categorical users and 25 non-categorical users. All 36 of the users have current permits.

A new permit was issued to Crossroads Beverage Group, effective April 1, 2012. This is a new company that opened a plant in the service area of the City of Reading Waste Water Treatment Plant. The plant is located in a building that once housed Power Packing Corporation, which closed in May 2009. Many of the same personnel that were employed by Power Packing are now employed by Crossroads Beverage. The permit includes a limit for free cyanide. The permit also includes a requirement for the submission of a Spill Plan. There is no requirement for self-monitoring of free cyanide due to the lack of a reasonable potential of its presence. Sampling for both company and the City is scheduled to be done twice per year. The company produces bottled water and is not subject to categorical standards.

Exide Technologies is counted as one significant industrial user. However, the company traditionally was issued separate permits for the three plants that discharge wastewater to the City of Reading. For compliance monitoring (inspections, sampling and self-monitoring) and enforcement counts and spreadsheets, each plant is counted separately. The plants are physically separated but are all located within the boundaries of the Exide Technologies complex. Although ownership is the same, management and authorized representatives were different for these plants. This changed in 2011 and now there is one Plant Manager for the entire complex. In addition, authorized representatives for the Pretreatment Program are now the same for all plants. Significant developments at this company have occurred over the past two years. Plants One and Two essentially closed in 2010. Plant One was a battery charging operation. The discharge from the building was and continues to be sanitary only. Since the closure, there is minimal usage of the building facilities. The majority of the building along with the major employee facilities is shut down and not accessible. Plant Two was a distribution center. It is now used for offices and also for the locker and shower rooms for all employees. The discharge was and continues to be sanitary only. Shower water and many of the sinks discharge to the company's treatment plant and not to the City. The discharge from Reading Recycling was terminated in September 2011. This discharge also was sanitary only. All bathroom facilities have been removed from this building and there is now no discharge to the sampling point. Due to these changes, Exide Technologies was to have been classified as a non-significant user beginning in 2012 for the discharge at Plant Two. However due to Exide's announcement of Reading Recycling's impending closure that was not done in 2012. The reclassification will be re-evaluated in 2013 with permit re-issuance. The City has continued to monitor Reading Recycling to verify that there is no discharge.

A new permit was issued for Akzo Nobel Coatings Inc. Due to unexplained violations of the zinc limit, zinc testing was continued on a monthly basis. A clause was added to the permit stating that Akzo shall submit a report to the City on several discharges and potential discharges. The report was to include the outfall receiving the discharges and potential discharges and if the discharges would go through pretreatment. The report was due to the City no later than February 28, 2013, and this deadline was met. Holding tanks that were installed to collect pretreated water were to be removed no later than June 28, 2013. During the annual inspection, the inspector saw that they had been removed. The permit continued the requirement that no planned, deliberate, or intentional discharge be made at any time to any unpermitted outfalls.

A new permit was issued for The Bachman Company. No changes were made to the testing requirements. The company was reminded to notify the City within 24 hours of discovering a permit violation and to resample within 30 days of the violation. Also, monthly pH sheets were provided in the self monitoring form. The reason being the company has had pH violations in the past, and the monthly sheets allow them to better maintain the pH of their discharge within the permit limits.

Summit Steel was issued a new permit. Due to a process change at the company, testing requirements were changed to a semiannual basis. One test shall occur between January and June, and the second between July and December. Testing for all parameters is to be done in the second half of the year. Testing in first half of the year does not require testing for all parameters.

A new permit was issued for Tom Sturgis Pretzels. No change was made to any testing requirements. The permittee had submitted a spill plan to the City in 2011. The permittee was required to ~~make minor~~ make minor additions and revisions to the spill plan and submit it to the City by June 29, 2012 and then implement and maintain the revised plan. The revised plan was received by the City in April 2012.

Non-Significant Users

The City also has 12 users classified as non-significant due to their minor flows and/or the low probability of potential problems. A new permit was issued for Air Liquide U.S. LP. Monthly self-monitoring reports were continued under this new permit. When no testing is done, that statement should be written on the monthly report. No other changes in testing or reporting were made.

A new permit was issued for NGK Metals Corporation. A new sampling point was expected to be added beginning in April 2013. Therefore, no changes were made to the existing sampling outfall. The new outfall shall have the same parameters tested at the same time as the old outfall with the addition of pH and VOC tested at the new outfall. The company was also required to give the City at least 30 days notice before discharging waste water from its holding tank to the sanitary sewer. The permit also requires that the permittee shall discharge said waste water at a rate of approximately 1 gpm over a time period of 48 to 96 hours depending on the volume of waste water in the tank.

A new permit was issued for Penske Truck Leasing. The only change in this permit was to state that the permittee shall test for all permit limits in April 2012 and April 2014. No other changes were made.

The current list of industrial users with their addresses is attached as **Appendix 1**.

II – Compliance Monitoring Program

Appendix 2 provides a listing with issuance and expiration dates for all significant and non-significant user control documents along with the number of inspections, sampling visits and self-monitoring events required and conducted during the year. The City uses permits for its control mechanism for significant and non-significant users. All 36 significant industrial users have current control documents. All permits are individual. According to permit Part V Section K, permits are administratively extended upon receipt of a permit renewal application “ninety (90) days prior to the expiration of the user’s existing wastewater discharge ~~permit~~”with permit “with the same requirements in place until permit re-issuance.

No general control mechanisms (permits) are used. For CIUs, the City has not assigned mass based limits in place of concentration based categorical limits. For CIUS, the City has not assigned concentration based limits in place of mass based categorical limits. The City has not granted a monitoring waiver for any CIU for any categorically regulated pollutants in accordance with 40 CFR 403.12(e)(2).

All 36 significant industrial users were inspected during the year. The City requires self-monitoring for all of its significant industrial users. For one industrial user, Orograin Manufacturing Bakeries, the City performs all of the testing for one parameter only. The City performs all testing for color in its own laboratory. The industry is required to do self-monitoring for all other parameters. This decision was based on the results of a split sample study. The City understands that any violation for color in its testing requires a resampling within 30 days in accordance with the Pretreatment Regulations.

Beginning with permits issued effective April 1, 2010, other items in the June 28, 2006 letter addressing the last EPA audit of the City’s Pretreatment Program were also addressed. These permits include a limit for free cyanide. A number of these permits do not require testing for free cyanide. This determination was made based on a data review, facility inspections and documents from the company demonstrating that there is no reasonable potential for violation of the local limit for free cyanide and is documented in each permit. However, testing for free cyanide was added to some of the permits as described in the Notes section of the Increased Industrial Sampling spreadsheet in **Appendix 3**. If self-monitoring for any other local limits pollutants is not required twice a year in these permits, documentation based on a data review and facility inspections is included in each permit demonstrating that there is no reasonable potential for violation of the local limit for these particular pollutants. These permits contain a justification for the number of grab samples required for those pollutants that require sampling in this manner. They also contain a justification for the requirement for sampling in certain months of the year.

Beginning with permits issued effective April 1, 2010, the following permit conditions are included as sent to the EPA in April 2010:

D. Other Permit Conditions

The permittee shall notify the City immediately of any changes at the facility affecting the potential for a slug discharge. A slug discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass-through, or in any other way violate the POTW's (publicly owned treatment works) regulations, local limits or permit conditions.

The Permittee shall maintain or provide documentation demonstrating compliance with the best management practices listed below.

- A Spill Prevention and Control Plan (Accidental Discharge/Slug Control Plan) that has been submitted to the City for approval must be maintained and implemented by the Permittee. A plan entitled _____, dated _____ and signed _____ was submitted to the City for approval. The Permittee is required to maintain and implement this plan at its facility.

All 36 significant industrial users were inspected and sampled by the City during the year. City sampling of significant users varies from monthly to annually. Exide Technologies – Plant One was sampled on a quarterly basis by the City. The City discontinued testing in the second half of 2010. Production in this building ceased on June 7, 2010 followed by cleanup of the production areas. The company continued sampling as required by permit. The discharge from the building is sanitary only. The closure resulted in minimal usage of the building facilities. The majority of the building along with the major employee facilities is shut down and not accessible. Exide Technologies – Reading Recycling was sampled only to verify that there is no discharge.

Significant users are required to submit self-monitoring reports at varying frequencies but not less than twice per year. All significant industrial users submitted all required self-monitoring reports during the year. Exide Technologies – Reading Recycling submitted three self-monitoring reports. A report for the fourth quarter could not be submitted. As described in more detail in Part A. III, the company removed all sources of sanitary discharge to the sampling point in September 2011. The sanitary discharge is the only discharge to the sampling point. The company certified that there was no discharge to the sampling point in the fourth quarter and therefore could not conduct testing in this quarter. Packaging Corporation of America submitted its first self monitoring report for the first quarter of 2012 in April 2012.

No significant industrial users were cited for failure to report. One was cited for late sampling. Packaging Corporation of America did not test for silver and TTO in the second quarter as required by their permit. TTO testing was done in May and silver was tested in July. The test results were submitted to the City and were in compliance. The company received an administrative penalty, but was not in SNC.

During the year, the City conducted sampling in excess of the proposed amount at a number of facilities to assess compliance after violations. A number of facilities conducted self-monitoring above the required amount for the same reason. These events were done at the facility's initiative or voluntarily following the City's request. The Increased Industrial Sampling spreadsheet

shows details of this and is included in **Appendix 3**. The number of additional sampling events on this spreadsheet does not always correspond with the Compliance Monitoring spreadsheet in Appendix 2 that covers all sampling events for the year. This is because City sampling events for issues other than compliance (additional sampling for conventional pollutants for surcharge billing) are not included in the Increased Industrial Sampling spreadsheet. In some cases, the City or the industry tested for additional parameters during a required or scheduled sampling event. In this case, the additional sampling performed column has been left blank and only the tests are listed. Required industrial resamples following violations are not included on any of the spreadsheets. Separate spreadsheets are included for significant industrial users and non-significant industrial users. The Increased Industrial Sampling spreadsheet also includes a Notes section. In this section, formal changes in sampling frequency are described. These are instances where the industrial user's permit or the City's SOP for an industrial user was changed to increase the frequency of testing for a parameter of concern.

While not required to report on non-significant industrial users, the City has always included this information in the Annual Report. All non-significant industrial users were sampled by the City during the year, except Ultra Wash of Philadelphia. Ultra Wash of Philadelphia is permitted for possible batch discharge only and therefore monitoring by the City is not planned. City sampling of non-significant users varies from quarterly to annually with the exception of Ultra Wash of Philadelphia.

Non-significant users are required to submit self-monitoring reports at varying frequencies but not less than once a year. Ultra Wash of Philadelphia is required to report quarterly on whether there has been a discharge to the sewer system. This requirement has been met. All non-significant industrial users submitted all required self-monitoring reports during the year.

One non-significant industrial user was cited for Failure to Report. The user in non-compliance is: Paragon Optical Company. The company did not submit third and fourth quarter self-monitoring reports in a timely fashion. The required reports have not yet been submitted to the City. This is described in Part A. III. Repeated phone calls to the user were not returned. The City took wastewater samples in August and November 2012. This user received an administrative penalty and was published as a facility in SNC for Failure to Report.

III – Significant Industrial User Compliance

Compliance Schedules

There are no significant users on a formal compliance schedule as of the end of 2012.

List of significant users in SNC anytime in 2012

An explanation of the individual facilities, both significant and non-significant, in SNC during the reporting year follows below. The total number of SIUs in SNC at any time during the calendar year was 7. The number of SIUs in SNC for the July to December Period (fourth quarter) was 3. 5 of the 7 SIUs that were in SNC during the calendar year were in SNC for one quarter only. One of these 7 SIUs was in SNC for Failure to Report. 2 other SIUs were in SNC for more than one quarter. Both of these companies have already taken measures to solve their non-compliance issues. One increased the frequency its settling tanks were cleaned out. The other determined that the violations were caused by a mechanical issue in their pretreatment

These facilities are the *significant users* that were in SNC for the year.

Cloister Car Wash and Lube + 2011 + 2010

Nature of violations:

3rd Quarter – TRC violation of the zinc limit listed in its permit

4th Quarter – TRC violation of the zinc limit listed in its permit

Actions planned and current compliance status:

Previous violations were traced to the wheel cleaner used. In 2010, the company installed a 300 gallon tank in the trench drain in the automatic car wash under the wheel wash section. Wastewater from this tank is pumped to the control/equipment room where it is filtered and then discharged to the last of 3 x 1800 gallon underground settling tanks for wastewater from the car wash. The underground settling tanks are pumped out by an outside contractor twice a year. In addition, the 300 gallon tank is pumped out regularly by a contractor. The company increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc filtration method, if necessary. More recent tests show the company is in compliance. The company and the City test quarterly for zinc. Due to past violations, the fine for any zinc violation was escalated twice and is now at \$500 per occurrence, in accordance with the City's Penalty Escalation Policy.

Clover Farms Dairy + 2011 + 2010

Nature of violation:

3rd Quarter – TRC and chronic violation of the oil/grease (HEM) limit listed in its permit

Actions planned and current compliance status:

A Consent Agreement with Clover Farms Dairy terminated on July 31, 2008. The agreement was for compliance with the oil and grease and pH limits in its permit. The company hired a consulting firm to work on the compliance issues. At the request of this firm, the agreement was written with two pathways to achieve compliance. These alternatives were equalization and pH adjustment or DAF technology. Each alternative had a separate termination date to achieve compliance. Segregation and hauling of wastewater high in oil and grease along with equalization and pH adjustment of the majority of the wastewater was chosen. The final compliance date for this approach was July 31, 2008. This Consent Agreement was signed on December 29, 2006.

The construction of this system did not return the company to compliance. It is possible that the sampling and testing studies conducted by the consulting firm were inaccurate. The design plans were based on these studies. The company continued its effort to divert additional waste streams to the segregation tank. Company engineers also made a number of modifications to the original system. None of these efforts were successful. In 2009 the company hired another engineering firm to design a building and DAF system. Subsequently, it hired a second firm to work on land development and zoning approvals from the township in which the company is located. The company met with Muhlenberg Township officials, the Planning Commission, and the Zoning Hearing Board. The City expected to write another Consent Order or Agreement in 2010 after the company had a better idea of how long the approvals would take and if there were any major impediments. However, the company did not communicate with the City concerning a time schedule for completion of the project. The City continued to make contact with the company

concerning its progress and the company indicated that it was still experiencing delays with the township. The company was in SNC for oil and grease for all four quarters in 2009 and 2010.

The City and the company test monthly for oil and grease. For the year 2012, the company had no violations the first four months nor any the last three months, but had nine between May and September. For the City testing, there were violations throughout the year, although most occurred between March and September of 2012. In December 2011, the City was asked to attend a meeting with the company's lawyer. No company representatives were in attendance. The lawyer wanted permission from the City to abandon plans for the DAF system because it found an alternative way to achieve compliance that would be much less expensive. The lawyer stated that the company is now manually skimming the equalization tank and this is the factor that has lead to compliance. The City requested additional information on the method being used to achieve compliance. A visit to the facility was discussed. The City also stated that a more permanent method for pH control would still be needed as well as a sampling manhole. These would have been included in the DAF system plan. After the meeting, City officials decided to begin second and third shift sampling to confirm that compliance with the oil and grease limit is not limited to the day shift. This was begun in January 2012. In December 2011, the City already began additional oil and grease sampling during the day shift at Clover Farms Dairy because of the dramatic change in the number of violations in 2011.

In January 2012, a meeting was held with the company's authorized representative and the company's lawyer. Due to the company's compliance record with the manual skimming of the equalization tank twice a day, the company wants to cancel plans for the installation of a DAF system. In order to maximize the effect of skimming, the company explored the idea to install an automatic skimmer in the equalization tank. The City stated again that a more permanent method for pH control would still be needed as well as a sampling manhole. The company stated that if the automatic skimmer is successful in controlling oil and grease, it would install a large pH adjustment tank after the equalization tank and a sampling manhole. If the skimmer is not successful, the company would install the DAF system which would require pH control and a sampling manhole would be installed. The City decided that the best way to handle this is through a COA. However, it was also decided that any COA would have to be approved by EPA since the Enforcement Branch of the EPA is conducting its own investigation of the company. Because of the history of non-compliance and the amount of time that has passed without a permanent solution, any COA written would not include any reduction in fines during the COA. The automatic skimmer system was installed in December 2012. There is not yet enough data to determine whether or not the system is accomplishing its goal of reducing the company's oil and grease violations. Since the installation of the automated skimmer system, their consultant has contacted the City discussing plans for the construction of a flow adjustment and pH ~~equalization system~~ equalization system and the status of Township approvals. Clover Farms has not mentioned this directly to the City to date.

Prior to signing the 2006 Consent Agreement, the fine schedule was \$1500 per occurrence for an oil and grease violation. For the duration of the Consent Agreement, the fine for any oil and grease violation was set at \$500 per occurrence. This fine amount continued after the termination of the Consent Agreement on July 21, 2008. Beginning with the first quarter of 2009, the fine for any oil and grease violation was escalated in accordance with the City's Penalty Escalation

Policy. The fine amount was raised to \$3500 per occurrence in the third quarter of 2012 and will continue to rise at \$500 increments every other quarter of non-compliance per the City's Penalty Escalation Policy.

Hofmann Industries, Inc. *7/2011*

Nature of violation:

4th Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit

Actions planned and current compliance status:

This is a categorical industrial user and has a maximum monthly average limit for a number of parameters including zinc. Because zinc plating is done, this is a metal of concern. There is a pretreatment system in operation. The violation was a result of a high zinc result on the City test conducted during the month of October. The company did the usual self monitoring tests in November. None of these tests were above the ~~limit, limit~~; however the average of the three was over the monthly average limit. The cause of the violation on these days could not be determined by the company. The company and the City have been taking extra samples since November. The results reported as of this writing have been mixed and the company remains in SNC as of this writing.

Interstate Container LLC

Nature of violations:

3rd Quarter-TRC violation of the color limit listed in its permit

3rd Quarter- Failure to report

Actions planned and current compliance status:

The company had a self monitoring color violation in its July sample. The repeat sample taken days later was also in violation of the company's permit limits. Neither of those results ~~were~~was reported to the City in a timely manner. They were reported on the 3rd quarter self monitoring report. The company was notified that they were to report all results, good or bad in a timely manner. The company made repairs to its pretreatment system which resulted in all subsequent tests taken by both the company and the City to be below the company's permit limit. The company made changes in its data handling and the company has returned to compliance.

Sealed Air Corporation

Nature of violations:

2nd Quarter-TRC violation of the lead limit listed in its permit

Actions planned and current compliance status:

The company had a high result for a sample taken by its independent laboratory as part of its self monitoring in June. The company had a second sample taken in a proper time frame which was within its limits. No reason was found for the high sample. The company and the City had been taking samples for lead once a year. The City samples the company once a month for conventional pollutants. After the initial violation in June, the City began to sample for lead on a monthly basis. All subsequent tests have been within the company's limit. The company has returned to compliance.

Yuasa Inc

Nature of violations:

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 001

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

3rd Quarter-TRC and chronic violation of the monthly average lead limit listed in its permit at outfall 002.

4th Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

4th Quarter- TRC violation of the monthly average lead limit listed in its permit at outfall 002

4th Quarter-Failure to report

Actions planned and current compliance status:

In July and August, the company had 8 lead violations, two monthly average violations, and 1 mercury violation at its two outfalls. The company investigated and found that it had received a shipment of lead oxide which was out of specifications. The lead oxide was removed from the plant. Adjusting the chemicals in the company's pretreatment system helped, however the company discovered a problem with the train filters in the pretreatment building. The train filters were replaced. The company took extra effluent and process samples while investigating the problem. All samples taken by both the company and the City have been within the permit limits and the company has returned to compliance.

The following facilities are *non-significant users* in SNC for the year.

Paragon Optical Company

Nature of violations:

3rd Quarter-Failure to report

4th Quarter-Failure to report

Actions planned and current compliance status:

The company had no issues regarding reporting until 2012. The company failed to submit both the third quarter and the fourth quarter self monitoring reports on time. Several phone calls were made to the company by the City. None were ~~returned~~. ~~The returned.~~ The City took wastewater samples in August and November of 2012. The reports have not been submitted as of this writing. The company remains in SNC.

Penske Truck Leasing

Nature of violations:

4th Quarter-TRC violation of the zinc limit listed in its permit

Actions planned and current compliance status:

SNC is based on one violation of two sampling events taken in October 2012. The company has scheduled a cleaning of its pretreatment system and notified staff of the new cleaning schedule. All samples taken since the cleaning have been under the discharge limit.

Unique Pretzel Bakery

Nature of violation:

2nd Quarter – TRC and chronic violation of the mercury limit listed in its permit

3rd Quarter-TRC and chronic violation of the mercury limit listed in its permit

Actions planned and current compliance status:

SNC for mercury is based on two violations in the three sampling events for mercury conducted in the first half of the year. The company is not sure of the cause of the violation. The company

has installed an equalization tank for more effective sampling. Sampling can now be done directly from this tank. Prior to the tank installation, sampling could only be done 4 times a year when the company discharged the contents of its tanks to the sewer. The company returned to compliance after the receiving tank was installed and sampling was conducted from the tank.

Repeat SNC from the Prior Year

Industrial Users that were in SNC for this reporting year that were also in SNC for the previous reporting period are found in **Appendix 4**. This appendix also lists the parameter or reason for the industrial user being in SNC for both years. There were two industries that were in SNC last year that did not return to compliance by the end of 2012. One was Hofmann Industries. The company had several high zinc results in the fourth quarter which kept it in SNC. Extra sampling by the company and the City have shown some positive results which will hopefully allow the company to return to compliance. The other industry is Paragon Optical Company which was in SNC due to failure to report.

Newspaper Listing

The significant users in significant non-compliance at any time during the reporting year are found in the newspaper listing attached as **Appendix 5**. The City used the rolling six-month time frame as required by 40 CFR 403.8 (f)(2)(viii) and reported all significant violators on a quarterly basis.

IV – Enforcement Actions

Appendix 6 provides a list of the following for both significant and non-significant industrial users:

Notices of violation

Number and nature of violations

Compliance orders

Total penalties assessed in 2012 and the reasons for the penalties

The City issued 90 Notices of Violation for SIUs in 2012 and 6 for non-SIUs. This is an increase of 24 NOVs from 2011, but one SIU alone, Clover Farms, had an increase of 23 NOVs from 2011 to 2012. Also, only 23 SIUs received NOVs for 2012. It is attributed to working informally but aggressively with industries having compliance issues in order to seek solutions prior to the necessity of a Consent Agreement. Another major factor is the City's Penalty Escalation Policy. Under this program, the penalty is escalated after two consecutive quarters with one or more TRC violations for the same parameter. The penalty escalates again after two more consecutive quarters with one or more TRC violations for the same parameter. If there is a quarter without a violation, the penalty remains at the same level for the next two quarters. The penalty returns to the base amount after four consecutive quarters without a violation for the parameter in question. Although there are some industries that are still having penalties escalated, others have been able to return to the base amount through continued compliance. The penalty escalation program has also been a positive factor in working with industries to enter into a Consent Agreement. The penalty escalation program has been in effect since 2003. If Clover Farms were in complete

compliance, the total penalties would be at or below the level prior to the institution of the penalty escalation policy.

All SIUs that had violations were subject to enforcement action by the City. All NOV's issued to SIUs by the City were followed with an administrative penalty during the next billing cycle. The initial penalty schedule is found in **Appendix 6**. A number of facilities have had penalties escalated due to recurring violations for the same parameter which is also detailed therein. If an industry has an issue impacting pretreatment or compliance for which a category does not exist, such as failure to submit a spill plan timely, the City consults with US EPA for guidance prior to penalty issuance.

Compliance Schedules

There were no compliance schedules issued in 2012. A Consent Order or Consent Agreement (COA) may be written for Clover Farms Dairy. The compliance history of this company and its current status is thoroughly described in Part A.III above. The City intends to proceed cautiously and secure EPA review and input in the decision to write a COA prior to any discussion or presentation of the draft COA document to the company. The City will not include any reduction in fines in a new COA. The City will require pH adjustment, a new sampling point (sampling manhole) and flow metering of the discharge. The company and its lawyer appear to want the City's approval or consent to abandon plans for a DAF system in favor of the installation of skimmers to control oil and grease. The City is interested in consistent compliance at all times and representative sampling and the method of achieving this is the responsibility of the company. Before any action could occur, the City would need to meet with both their consultant and lawyer together with company representatives since different information has been received from the different parties.

The City had discussions with Dietrich's Milk Products (now Dairy Farmers of America) in 2010 in regard to a Consent Agreement. It was expected that a Consent Agreement would be signed with this company in 2011. However, there was a lot of rewriting and revision of the City's standard Consent Agreement by the company's lawyers. In the meantime, the company continued with their plans to install DAF technology to control pH and oil and grease. The time delays with the Consent Agreement rendered it unnecessary. The DAF system was put into operation in the summer of 2011. Although this company has not been in SNC since 2006, their penalty for any oil and grease violation was \$4000 per occurrence throughout the 2012 year. The penalty had been escalated numerous times over the years in accordance with the City's Penalty Escalation Policy. This was a factor in the company's decision to install a DAF pretreatment system.

There are no significant users on compliance schedules that are in writing but are not considered "formal".

24 significant users were assessed penalties in 2012. Penalties were collected from 24 of the users in 2012. The number of users paying penalties in 2012 does not correspond to those receiving penalties as a result of the third and fourth quarter 2011 penalties that were issued and paid in 2012. Some industries had violations for 2011 but not in 2012. Penalties are included in the quarterly industrial waste surcharge bills. Conversely, the City received payments in 2012

for violations occurring and assessed in 2011. A report on the penalty payment status for violations occurring during 2012 is included in **Appendix 7**. Please note that Crescent Brass appears periodically throughout the report. They are required to pay \$265.05 monthly for prior years' delinquent fines as a settlement in their bankruptcy. These payments are processed by the Law Department and postings often include multiple months.

The City has been investigating errors in the penalty payment and posting. There are some minor payment discrepancies requiring additional research with the Administrative Services Department. Public Works staff has discovered errors with the posting of prior penalties' payments within the software system as well as subsequent corrections not reflected in the industrial waste reports. Research in this system shows that the corrections appear in some individual customer queries but not in the summary reports pulled for routine use such as the requisite reporting. This system's data is also transferred to the City's accounting system so the error correction process is critical. During meeting in 2012, this situation and the impact of making accounting system only corrections was discussed. Since then, the problems have significantly improved. The City is working interdepartmentally to resolve this issue for the past and determine if the report can be written differently since investigation evidences inconsistency in the reporting problem. The ultimate goal is to know and communicate to involved personnel how to make corrections that are reflected in both the accounting and tracking systems with accurate reporting in both systems. Crescent Brass as discussed above is one industry known to have an issue with the software report discrepancy described. Another is Robeson Township, a contributing municipality, who had payment accidentally credited to the administrative fines account. While it was 'corrected' or 'adjusted' at one place, this still appears as an unpaid bill for the industrial waste reports. As such, Appendix 7 shows the gross dollar amounts and corrected gross dollar amounts with these two known discrepancies removed.

Part B – Pretreatment Developments

I – Summary of POTW Operations

Over the past year, the City has not experienced process upsets, NPDES permit violations, pass-through events or interferences that could be attributed to industrial waste. Additionally, the City did not have problems in the collection system that could be attributed to industrial waste.

The overall, ongoing improvements in management, operations and maintenance (MOM) practices during the year continue to make the pump stations and wastewater treatment plant (WWTP) more effective, efficient and reliable.

The City is required to perform priority pollutant testing annually. The priority pollutant sampling along with the quarterly local limits testing was conducted on the following dates: 7/8-9/12 for the influent, 7/8-9/12 for the effluent and 7/3/12 for the biosolids. The results of these analyses are included in **Appendix 8**. The Form 43 biosolids sampling was conducted on 1/3/12 and 8/7/12. The City is required to perform local limits testing on the influent, effluent, and biosolids on a quarterly basis per the City's NPDES permit. Four tests were performed for the influent and effluent as reported in the in the Monitoring Data Spreadsheet. Weekly mercury testing is performed on plant influent points and the plant effluent. The results of these analyses are included in **Appendix 8**. Priority pollutant testing, quarterly local limits testing and mercury testing is also performed at two of the major influent points for the plant prior to the commingling of all wastewater at what is designated as the plant influent. These two major influent points are designated as 6th and Canal (6th) and the Grit Chamber (Grit). Results for these two major influent points are included in **Appendix 8** and also in the Monitoring Data Spreadsheet.

For biosolids, monthly 503 analyses were performed in 2012. Monthly fecal coliform testing on biosolids was performed in the City's laboratory and the results are summarized in a table. These are included in **Appendix 8**.

Influent, effluent and biosolids data from the quarterly testing and priority pollutants testing and biosolids data from the Form 43 and 503 analyses are summarized in the Monitoring Data Spreadsheet received by e-mail from the EPA. These are included in **Appendix 8**. The monthly average for BOD, TSS, NH₃-N, TKN and Phosphorus for the plant influent was added to the Monitoring Data Spreadsheet. Data from the two major influent points of the plant was added to the Monitoring Data Spreadsheet as two separate tabs.

Additional testing that the City performed for bis(2-Ethylhexyl)phthalate or semivolatiles on the plant influent points, plant effluent and biosolids is included in **Appendix 8**. This was done on at least a monthly basis.

A spreadsheet is also included showing the results and monthly average of testing performed for TKN, Total Phosphorus and ortho-phosphate on the influent in 2012.

In November 2012, Jeffrey Hill, a prior City Chemist and Laboratory Technician who performed the bulk of the industrial sampling, assumed responsibilities as the Environmental Program Coordinator position when the prior Coordinator, Jacqueline Hendricks, retired effective October 31st. Mr. Hill permanently accepted the role effective January 1, 2013. In 2012, a Lab Technician was hired to replace one who left for health reasons in late 2011. Another Lab Technician transferred to the operations staff of the wastewater treatment plant. Recruitment was conducted promptly and a replacement was hired. . The laboratory is staffed with five full-time Laboratory Technicians and a Laboratory Supervisor. One Laboratory Technician is the primary person performing the industrial sampling. However, the job duties of all Laboratory Technicians include industrial sampling. The other Laboratory Technicians are cross trained to and rotationally perform industrial sampling so they are familiar with all of the industrial sites and the sampling points.

III – Miscellaneous Developments

During March 2003, legal counsel for the City was requested by the United States Department of Justice to meet concerning permit violations of the wastewater treatment plant. As a result of this and subsequent meetings, the City of Reading has a Consent Decree with the United States Department of Justice, United States Environmental Protection Agency, and Pennsylvania Department of Environmental Protection in order to address past permit violations and to obtain consistent permit compliance for the future. This Consent Decree addresses the wastewater treatment plant, collection system, and industrial pretreatment program. The negotiations for this Consent Decree were completed and the decree executed by all parties in 2004. On December 9, 2004, the US Attorney announced that an agreement had been reached between the parties, and the complaint and decree were lodged with the judge simultaneously. This was subsequently advertised for a thirty-day public comment period which continued into 2005. The Consent Decree was officially signed by the judge and entered on November 7, 2005. This Consent Decree dictates many interim improvements and systems to be implemented while the City embarks on studies of both the WWTP and collection system prior to beginning a capital improvement plan.

For the Consent Decree interim remedial measures, there is the ongoing implementation and refinement of the Environmental Management System, Wet Weather Operations Plan, and the Operations and Maintenance Plan. Additionally, the Plant Influent, Trickling Filter Performance, and Process Control Monitoring are continuing as described in their respective submissions as required.

The long-term remedial measures for the WWTP upgrades, includes the liquid and solid treatment alternatives required by the Consent Decree. Additionally, the collection system has goals to improve mapping, management, operations, and maintenance through a regimented process leading to system rehabilitation in an ongoing manner.

The City continues to work to improve the wastewater system as a whole and plan for capital improvements. Periodic reports to the regulators and meetings with the regulators document the City's progress and concerns.

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Current Industrial Users

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Appendix 2
Compliance Monitoring Program

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Appendix 3
Increased Industrial Sampling

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Appendix 4
Facilities in SNC for 2012 that were
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Appendix 5
Newspaper Listing of Significant
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Appendix 8
Data Monitoring Spreadsheet
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	Analytical Results

APPENDIX 1

CURRENT INDUSTRIAL USERS

SIGNIFICANT INDUSTRIAL USERS 2012
CATEGORICAL INDUSTRIES (10)

✓ Carpenter Technology Corporation - Iron and Steel 101 West Bern Street Reading PA 19601	Mailing Address: P O Box 14662 Reading PA 19612-4662
✓ Crescent Brass Manufacturing-Metal Molding & Casting - Zero Discharge 701 Park Avenue Reading PA 19611	Mailing Address: Same
✓ Hofmann Industries - Metal Finishing 3145 Shillington Road Sinking Spring PA 19608	Mailing Address: Same
✓ Reading Plating and Polishing Works - Electroplating 1833 Cotton Street Reading PA 19606	Mailing Address: 1839 Cotton Street Reading PA 19606
✓ Reading Truck Body - Metal Finishing 201 Hanover Blvd. Reading PA 19611	Mailing Address: Same
✓ Sealed Air Corporation - Pulp and Paper 450 Riverfront Drive Reading PA 19602	Mailing Address: Same
✓ Summit Steel and Manufacturing - Metal Finishing 1005 Patriot Parkway Reading PA 19605	Mailing Address: P O Box 14295 Reading PA 19612
✓ Termaco USA - Metal Finishing 171 Tuckerton Road Reading PA 19605	Mailing Address: Same
✓ United Corrstack - Pulp and Paper 720 Laurel Street Reading PA 19602	Mailing Address: Same
✓ Yuasa Inc - Battery Manufacturing 2901 Montrose Ave Laureldale PA 19605	Mailing Address: Same

SIGNIFICANT INDUSTRIAL USERS 2012
NON-CATEGORICAL INDUSTRIES (26)

✓ Akzo Nobel Coatings
159 Columbia Avenue
Reading PA 19601

Mailing Address:
Same

✓ Aramark Uniform Services
424 Blair Avenue
Reading PA 19601

Mailing Address:
P O Box 15166
Reading PA 19612-5166

✓ The Bachman Company
51 Spring Valley Road
Reading PA 19605

Mailing Address:
P O Box 15053
Reading PA 19612-5053

✓ Berks Packing Company
307-323 Bingaman Street
Reading PA 19602

Mailing Address:
P O Box 5919
Reading PA 19610-5919

✓ Cloister Car Wash and Lube
1 Cloister Court
Sinking Spring PA 19608

Mailing Address:
814 Dawn Avenue
Ephrata PA 17522

✓ Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605

Mailing Address:
P O Box 14627
Reading PA 19612-4627

✓ Crossroads Beverage Group
1055 Crossroads Boulevard
Reading, PA 19605

Mailing Address:
Same

✓ Cryovac, Inc.
Food Packaging Division
177 Tuckerton Road
Reading PA 19605

Mailing Address:
P O Box 295
Reading PA 19603

✓ Dairy Farmers of America
100 McKinley Avenue
Reading PA 19605

Mailing Address:
Same

✓ Evergreen Community Power
800 South Street
Reading PA 19602

Mailing Address:
Same

Exide Technologies

Plant One

✓ Spring Valley Road & Nolan Street

Laureldale PA 19605

Plant Two

Spring Valley Road & Montrose Avenue

Laureldale PA 19605

Reading Recycling

Spring Valley Road & Nolan Street

Reading PA 19605

Mailing Address:

P O Box 14294

Reading PA 19612-4294

Mailing Address:

P O Box 14294

Reading PA 19612-4294

Mailing Address:

P O Box 14294

Reading PA 19612-4294

IFS Industries Inc.

✓ 400 Orrton Avenue

Reading PA 19611

Mailing Address:

P O Box 1053

Reading PA 19603

✓ Interstate Container LLC.

100 Grace Street

Reading PA 19611

Mailing Address:

Same

Lentz Milling

✓ 2045 N 11th Street

Reading PA 19604

Mailing Address:

P O Box 13159

Reading PA 19612

✓ National/Yorgey's Cleaners

1700 Fairview Street

Reading PA 19606

Mailing Address:

Same

Orograin Bakeries

✓ 640 Park Avenue

Reading PA 19611

Mailing Address:

Same

✓ Packaging Corporation of America

171 Tuckerton Road

Reading PA 19605

Mailing Address:

Same

✓ Prizer Painter Stove Works

600 Arlington Street

Reading PA 19611

Mailing Address:

P O Box 1053

Reading PA 19603

✓ Quadrant EPP USA, Inc.

2120 Fairmont Avenue

Reading PA 19605

Mailing Address:

P O Box 14235

Reading PA 19612-4235

Quaker Maid Meats

✓ 520 & 521 Carroll Street

650 Morgantown Road

Reading PA 19611

Mailing Address:

P O Box 350

Shillington PA 19607-0350

✓ Reading Eagle
345 Penn Street
Reading PA 19601

Mailing Address:
P O Box 582
Reading PA 19603

✓ Reitech Corporation
3146 Marion Street
Laureldale PA 19605

Mailing Address:
Same

✓ St Joseph Medical Center-Downtown
145 N 6th Street
Reading PA 19601

Mailing Address:
P O Box 316
Reading PA 19603

✓ Sun Rich Fresh Foods
425 Gateway Drive
Reading PA 19601

Mailing Address:
Same

✓ Sweet Street Desserts
722 Hiester's Lane
Reading PA 19605

Mailing Address:
P O Box 15127
Reading PA 19612-5127

✓ Tom Sturgis Pretzels
2267 Lancaster Pike
Reading PA 19607

Mailing Address:
Same

2012 NON-SIGNIFICANT INDUSTRIES (12)

Air Liquide
2500 N 11th Street
Reading PA 19605

Mailing Address:
P O Box 13577
Reading PA 19612-3577

Diesel Service, Inc.
150 Lehigh Street
Reading PA 19601

Mailing Address:
P O Box 14325
Reading PA 19612-4325

NGK Metals Corporation
150 Tuckerton Road
Temple PA 19560

Mailing Address:
917 US Highway 11 South
Sweetwater TN 37874

Paragon Optical
644-658 S 7th Street
Reading PA 19602

Mailing Address:
658 S 7th Street
Reading PA 19602

Pennsylvania Truck Centers
4226 Pottsville Pike
Reading PA 19605

Mailing Address:
P O Box 13337
Reading PA 19612-3337

Penske Truck Leasing
255 Penske Plaza
Reading PA 19602

Mailing Address:
P O Box 7635
Reading PA 19603-7635

Remcon Plastics
208 Chestnut Street
Reading PA 19602

Mailing Address:
Same

Rohm & Haas Chemicals LLC-R&D Lab
3 Commerce Drive
Reading PA 19607

Mailing Address:
Same

Ultra Wash of Philadelphia
1619 N 9th Street
Reading PA 19604

Mailing Address:
P O Box 1130
North Cape May NJ 08204

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605

Mailing Address:
Same

Van Bennett Food Company
101 N Carroll Street
Reading PA 19611

Mailing Address:
Same

WORLD electronics
3000 Kutztown Road
Reading PA 19605

Mailing Address:
Same

APPENDIX 2

COMPLIANCE MONITORING PROGRAM

2012 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Akzo Nobel Coatings	April 1, 2012	March 31, 2015	1	1	12	12	12	12
Aramark Uniform Services	July 1, 2010	June 30, 2013	1	1	4	4	12	12
The Bachman Company	January 1, 2012	December 31, 2014	1	1	4	4	4	4
Berks Packing Company	January 1, 2010	OK December 31, 2012	1	1	4	4	12	12
Carpenter Technology	October 1, 2009	September 30, 2012	1	1	4	4	4	4
Cloister Car Wash and Lube	July 1, 2009	June 30, 2012	1	1	4	4	4	4
Clover Farms Dairy	October 1, 2009	September 30, 2012	1	1	12	12	12	12
Crescent Brass Manufacturing	October 1, 2011	September 30, 2014	1	1	1	1	2	2
Crossroads Beverage	April 1, 2012	March 31, 2015	1	1	2	2	1	2
Cryovac Food Packaging Division	April 1, 2010	March 31, 2013	1	1	2	2	2	2
Dairy Farmers of America	April 1, 2011	March 31, 2014	1	1	12	12	12	12
Evergreen Community Power	October 1, 2011	September 30, 2014	1	1	2	2	2	2
Exide Technologies - Plant One	January 1, 2009	December 31, 2011	1	1	0	OK 0	4	4
Plant Two	January 1, 2009	December 31, 2011	1	1	4	4	2	2
Reading Recycling	January 1, 2009	December 31, 2011	1	1	5	0	4	4
Hofmann Industries	April 1, 2009	March 31, 2012	1	1	2	2	12	4
IFS Industries (International Foundry Supply)	October 1, 2011	September 30, 2014	1	1	13	12	14	12
Interstate Container	October 1, 2010	September 30, 2013	1	1	6	4	7	4
Lentz Milling	July 1, 2010	June 30, 2013	1	1	2	2	4	4
National/Yorgey's Cleaners	January 1, 2012	December 31, 2014	1	1	4	4	2	2
Orograin Bakeries	July 1, 2011	June 30, 2014	1	1	4	4	2	2
Packaging Corporation of America	May 1, 2011	March 31, 2014	1	1	4	4	4	4
Prizer Painter Stove Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Quadrant EEP USA	April 1, 2012	March 31, 2015	1	1	1	1	2	2
Quaker Maid Meats	October 1, 2009	September 30, 2012	1	1	4	4	4	4
Reading Eagle Company	January 1, 2012	December 31, 2014	1	1	2	2	2	2
Reading Plating & Polishing Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Reading Truck Body	October 1, 2010	September 30, 2013	1	1	4	4	12	12
Reitech Corporation	October 1, 2010	September 30, 2013	1	1	2	2	2	2
Sealed Air Corporation	January 1, 2010	OK December 31, 2012	1	1	13	12	74	52
St Joseph Medical Center Downtown	April 1, 2010	March 31, 2013	1	1	6	4	12	12

2012 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Summit Steel and Manufacturing	— October 1, 2012	September 30, 2015	1	1	1	2	2	2
Sun Rich Fresh Foods	January 1, 2011	December 31, 2013	1	1	12	12	12	12
Sweet Street Desserts	April 1, 2012	March 31, 2015	1	1	4	4	4	4
Termaco USA	July 1, 2011	June 30, 2014	1	1	2	2	5	4
Tom Sturgis Pretzels	— January 1, 2012	December 31, 2014	1	1	4	4	5	4
United Corstack	October 1, 2010	September 30, 2013	1	1	13	12	13	12
Yuasa Battery	April 1, 2009	— March 31, 2012	1	1	4	4	5	4
Total			38	38	187	176	296	258

NOTES:

Crossroads Beverage: New permit issued April 2012. Company began manufacturing and discharging in second quarter 2012. The reason for only one self monitoring test is due to the fact that self monitoring tests are scheduled for January and June and only one was possible in 2012.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

2012 COMPLIANCE MONITORING PROGRAM

Non-Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
	Issuance Date	Expiration Date	Inspections		Sampling Visits		Self-Monitoring	
			Performed	Proposed	Performed	Proposed	Performed	Required
Air Liquide	July 1, 2012	June 30, 2015	0	0	1	1	2	2
Akzo Nobel Powder Coatings R&D Center	July 1, 2012	June 30, 2015	0	0	1	1	1	1
Diesel Service	October 1, 2011	September 30, 2016	1	0	3	3	2	2
NGK Metals Corporation	April 1, 2012	March 31, 2015	0	0	4	4	2	2
Paragon Optical	January 1, 2010	December 31, 2012	1	0	4	4	1	2
Pennsylvania Truck Centers	October 1, 2011	September 30, 2014	0	0	2	2	2	2
Penske Truck Leasing	January 1, 2012	December 31, 2014	0	0	4	4	4	4
Remcon Plastics	April 1, 2011	March 31, 2014	0	0	1	1	1	1
Ultra Wash of Philadelphia	April 1, 2010	March 31, 2013	0	0	0	0	4	4
Unique Pretzel Bakery	October 1, 2009	September 30, 2012	1	0	3	2	2	2
Van Bennett Food Company	October 1, 2009	September 30, 2012	0	0	2	2	4	4
WORLD electronics	January 1, 2011	December 31, 2013	0	0	2	2	2	2
Total			3	0	27	26	27	28

NOTES:

Akzo Nobel Powder Coatings Inc R&D Center: The new permit for Rohm & Haas Chemicals LLC-R&D Lab effective July 1, 2012 was issued to Akzo Nobel Coatings, Inc Powder Coatings - R&D Center. It was a corporate decision by the current owners. There was no change in operations or authorized representatives.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

APPENDIX 3

INCREASED INDUSTRIAL SAMPLING

INCREASED INDUSTRIAL SAMPLING FOR 2012

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Akzo Nobel Coatings						
Aramark Uniform Services						
The Bachman Company						
Berks Packing Company						
Carpenter Technology						
Cloister Car Wash and Lube				3	copper and zinc	3
Clover Farms Dairy	1	oil and grease	1			
	11	oil and grease, pH	11			
Crescent Brass Manufacturing						
Crossroads Beverage Group						
Cryovac Food Packaging Division						
Dairy Farmers of America						
Evergreen Community Power						
Exide - Plant One						
- Plant Two						
- Reading Recycling						
Hofmann Industries				7	chromium, zinc	7
IFS Industries				1	oil and grease, phenols	1
Interstate Container				3	color	3
Lentz Milling						
National/Yorgey's Cleaners						
Orograin Bakeries						
Packaging Corp. of America						
Prizer Painter Stove Works				1	oil and grease	1
Quadrant EPP USA						
Quaker Maid Meats - outfall 004				1	oil and grease	1
Reading Eagle Company						
Reading Plating & Polishing Works						
Reading Truck Body						
Reitech Corporation						
Sealed Air Corporation	5	lead	5	1	lead	1
St Joseph Downtown						
Summit Steel and Manufacturing						
Sun Rich Fresh Foods						

INCREASED INDUSTRIAL SAMPLING FOR 2012

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Sweet Street Desserts						
Termaco USA						
Tom Sturgis Pretzels				1	pH	1
United Corrstack				1	oil and grease	1
Yuasa Battery	2	lead	2	12	lead	12

NOTES:

Akzo Nobel Coatings Inc

A new permit effective April 1, was issued. No change to sampling requirements was made.

The Bachman Company

A new permit, effective January 1 was issued. No change to sampling requirements was made.

Crossroads Beverage Group

A new permit was issued for this new industry effective April 1. The company is required to test all parameters in July and January and the City will be testing all parameters twice per year. There is no requirement to test for free cyanide at this time.

National/Yorgey's Cleaners

A new permit was issued effective January 1. The permit made no changes to sampling requirements. It continued the practice of taking multiple samples for oil and grease on the same day and allowing the samples to be composited for analysis but only by the company's independent laboratory.

INCREASED INDUSTRIAL SAMPLING FOR 2012

INDUSTRY (non-SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Air Liquide						
Diesel Service						
NGK Metals Corporation						
Paragon Optical						
Pennsylvania Truck Centers						
Penske Truck Leasing						
Remcon Plastics						
Rohm and Haas - R&D Lab						
Ultra Wash of Philadelphia						
Unique Pretzel Bakery	1	mercury	1			
Van Bennett Food Company						
WORLD electronics						

NOTES:

APPENDIX 4

FACILITIES IN SNC FOR 2012 THAT WERE ALSO IN SNC FOR 2011

Significant Industrial Users in SNC for 2012 that were also in SNC for 2011

<u>Facility</u>	<u>Reason for Significant Non-Compliance</u>		<u>Status at the end of 2012</u>
	<u>2011</u>	<u>2012</u>	
Cloister Car Wash & Lube	TRC & chronic: zinc Failure to report	TRC: zinc	Compliance
Clover Farms Dairy	TRC: oil & grease (HEM)	TRC & chronic: oil and grease (HEM)	Compliance
Hofmann Industries	Chronic: zinc	Chronic: zinc	SNC

Non Significant Industrial Users in SNC for 2011 that were also in SNC for 2010

<u>Facility</u>	<u>Reason for Significant Non-Compliance</u>		<u>Status at the end of 2012</u>
	<u>2011</u>	<u>2012</u>	
Paragon Optical Company	TRC & chronic: copper Failure to resample	Failure to report	SNC
Unique Pretzel Bakery	TRC: chromium	TRC & chronic: mercury	Compliance

CITY OF READING
ACCOUNTS PAYABLE, ROOM 201A
815 WASHINGTON ST.
READING, PA 19601

{ No.0000326270

Proof of Publication of Notice in Reading

Under Act No. 587, Approved May 16, 1929.

Commonwealth of Pennsylvania,
County of Berks

Lynn Schittler, Assistant Secretary, READING EAGLE COMPANY, of the County and Commonwealth aforesaid, being duly sworn, deposes and says that the READING EAGLE established January 28, 1868 is a newspaper of general circulation published at 345 Per City of Reading, County and State aforesaid, and that printed notice or publication attached hereto is exactly same as printed and published in the regular edition of the said READING EAGLE on the following date:

Reading Eagle Sunday, March 24, 2013, A.D.

Affiant further deposes that this person is duly authorized by the READING EAGLE COMPANY, a corporation, published said READING EAGLE, a newspaper of general circulation, to verify the foregoing statement under oath, and affiant is not interested in the subject matter of the aforesaid advertisement, and that all allegations in the foregoing statements as to time, place, character of publication

Lynn Schittler
Lynn Schittler

Sworn to and subscribed before me this 25th day of March 2013

Ann L. Liptak
Ann L. Liptak

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
ANN L. LIPTAK, NOTARY PUBLIC
CITY OF READING, BERKS COUNTY
MY COMMISSION EXPIRES OCT. 2, 2016

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PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026649, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (iii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2012 to December 31, 2012 along with their current compliance status is as follows:

Cloister Car Wash and Lube

1 Cloister Court
Sinking Spring PA 19606
City of Reading Industrial Waste Permit No. 80A

Nature of violations:

3rd Quarter-TRC violation of the zinc limit listed in its permit
4th Quarter-TRC violation of the zinc limit listed in its permit

Current compliance status:

In 2010, the company began segregating the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the third quarter, the company pumped out the wheel settlement pit and increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. The company has returned to compliance.

Clover Farms Dairy

3300 Pottsville Pike
Reading PA 19605
City of Reading Industrial Waste Permit No. 47H

Nature of violation:

3rd Quarter-TRC and chronic violation of the oil and grease (HEM) limit listed in its permit

Current compliance status:

The company had a Consent Agreement with the City of Reading that was signed on December 29, 2008 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to automate these changes and to add a system for pH compliance. In December 2012, an automated skimmer system to remove floatables including oil and grease was installed in the pretreatment tank. The company is currently in compliance.

Hofmann Industries, Inc.

3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G

Nature of violation:

4th Quarter - Chronic violation of the maximum monthly average limit for zinc listed in its permit

Current compliance status:

This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The company had one sample which caused a high monthly average in October. The company took its normal allotment of samples the following month none of which yielded high results, but which yielded a high monthly average for that month. Extra sampling was done by both the company and the City. Some of the samples have remained above the discharge limit. No cause of the problem has yet been determined. The company remains in SNC however excellent progress has been made toward solving the problem as the last two month's averages have been in compliance.

Interstate Container LLC

100 Grace Street
Reading, PA 19611
City of Reading Industrial Waste Permit No. 20H

Nature of violation:

3rd Quarter-TRC violation of the color limit listed in its permit
3rd Quarter-Failure to report

Current compliance status:

The company had an issue with a leak in a tank involved in the waste water pretreatment process which caused a high color reading. This problem was solved. The company then failed to report a high color result in a timely fashion as well as not reporting the result of the follow up sample which was also high. Subsequent test results during the remaining months were within an acceptable range and the company is currently in compliance.

Sealed Air Corporation

450 Riverfront Drive
Reading, PA 19602
City of Reading Industrial Waste Permit No. 60G

Nature of violation:

2nd Quarter-TRC violation of the lead limit listed in its permit

Current compliance status:

This company is a categorical industry. A sample taken by the company's independent laboratory showed a lead violation. No reason was found for this test result. The company had a second sample taken in the proper time frame. Additionally, the City began taking a sample for lead during its monthly industrial waste water sampling. All subsequent test results were below the company's discharge limit. The company is in compliance.

Yuasa Inc

2901 Montrose Avenue
Laureldale, PA 19605
City of Reading Industrial Waste Permit No. 35G

Nature of violation:

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 001

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

3rd Quarter-TRC and chronic violation of the monthly average lead limit listed in its permit at outfall 002

4th Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

4th Quarter-TRC violation of the monthly average lead limit listed in its permit at outfall 002

4th Quarter-Failure to report

Current compliance status:

This company is a categorical industry and therefore has a maximum monthly average limit for a number of parameters including lead. Upon investigation, the company discovered that it had received a shipment of lead oxide which was out of specifications and was subsequently removed from the plant. The company adjusted the chemicals used in the pretreatment process and did additional sampling. New train filters were installed in October. The results of all tests since that time have been under the limit and the company has been in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Paragon Optical Company Inc.

644-668 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C

Nature of violations:

3rd Quarter-Failure to report

4th Quarter-Failure to report

Current compliance status:

The company did not submit either the third quarter or the fourth quarter self monitoring report within 30 days after the due date. The reports have not been turned in as of this writing. The company remains in SNC.

Penske Truck Leasing

255 Penske Plaza
Reading, PA 19602
City of Reading Industrial Waste Permit No. M017D

Nature of violations:

4th Quarter-TRC violation of the zinc limit listed in its permit

Current compliance status:

SNC is based on one violation of two sampling events occurring in October. In response, the company scheduled a cleaning of its pretreatment system and notified staff of the new cleaning schedule. Samples taken since the cleaning have been below the zinc discharge limit and the company is heading toward compliance.

Unique Pretzel Bakery

215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D

Nature of violation:

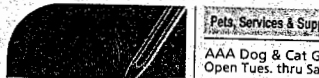
2nd Quarter-TRC and chronic violation of the mercury limit listed in its permit

3rd Quarter-TRC and chronic violation of the mercury limit listed in its permit

Current compliance status:

SNC is based on two violations in three sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoeg, PE, Utilities Division Manager, or Jeffrey P. Hill, Environmental Program Coordinator, at 610-665-8121.



PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2012 to December 31, 2012 along with their current compliance status is as follows:

Cloister Car Wash and Lube
1 Cloister Court
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 80A
Nature of violation:
3rd Quarter-TRC violation of the zinc limit listed in its permit
4th Quarter-TRC violation of the zinc limit listed in its permit
Current compliance status:
In 2010, the company began segregating the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the third quarter, the company pumped out the wheel settlement pit and increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. The company has returned to compliance.

Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605
City of Reading Industrial Waste Permit No. 47H
Nature of violation:
3rd Quarter-TRC and chronic violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The company had a Consent Agreement with the City of Reading that was signed on December 29, 2008 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to automate these changes and to add a system for pH compliance. In December 2012, an automated skimmer system to remove floatables including oil and grease was installed in the pretreatment tank. The company is currently in compliance.

Hofmann Industries, Inc.
3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G
Nature of violation:
4th Quarter - Chronic violation of the maximum monthly average limit for zinc listed in its permit
Current compliance status:
This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The company had one sample which caused a high monthly average in October. The company took its normal allotment of samples the following month none of which yielded high results, but which yielded a high monthly average for that month. Extra sampling was done by both the company and the City. Some of the samples have remained above the discharge limit. No cause of the problem has yet been determined. The company remains in SNC however excellent progress has been made toward solving the problem as the last two month's averages have been in compliance.

Interstate Container LLC
100 Grace Street
Reading, PA 19611
City of Reading Industrial Waste Permit No. 20H
Nature of violation:
3rd Quarter-TRC violation of the color limit listed in its permit
3rd Quarter-Failure to report
Current compliance status:
The company had an issue with a leak in a tank involved in the waste water pretreatment process which caused a high color reading. This problem was solved. The company then failed to report a high color result in a timely fashion as well as not reporting the result of the follow up sample which was also high. Subsequent test results during the remaining months were within an acceptable range and the company is currently in compliance.

Sealed Air Corporation
450 Riverfront Drive
Reading, PA 19602
City of Reading Industrial Waste Permit No. 60G
Nature of violation:
2nd Quarter-TRC violation of the lead limit listed in its permit
Current compliance status:
This company is a categorical industry. A sample taken by the company's independent laboratory showed a lead violation. No reason was found for this test result. The company had a second sample taken in the proper time frame. Additionally, the City began taking a sample for lead during its monthly industrial waste water sampling. All subsequent test results were below the company's discharge limit. The company is in compliance.

Yuasa Inc.
2901 Montrose Avenue
Laureldale, PA 19605
City of Reading Industrial Waste Permit No. 35G
Nature of violation:
3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 001
3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002
3rd Quarter-TRC and chronic violation of the monthly average lead limit listed in its permit at outfall 002
4th Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002
4th Quarter-TRC violation of the monthly average lead limit listed in its permit at outfall 002
4th Quarter-Failure to report
Current compliance status:
This company is a categorical industry and therefore has a maximum monthly average limit for a number of parameters including lead. Upon investigation, the company discovered that it had received a shipment of lead oxide which was out of specifications and was subsequently removed from the plant. The company adjusted the chemicals used in the pretreatment process and did additional sampling. New train filters were installed in October. The results of all tests since that time have been under the limit and the company has been in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C
Nature of violations:
3rd Quarter-Failure to report
4th Quarter-Failure to report
Current compliance status:
The company did not submit either the third quarter or the fourth quarter self monitoring report within 30 days after the due date. The reports have not been turned in as of this writing. The company remains in SNC.

Penske Truck Leasing
255 Penske Plaza
Reading, PA 19602
City of Reading Industrial Waste Permit No. M017D
Nature of violations:
4th Quarter-TRC violation of the zinc limit listed in its permit
Current compliance status:
SNC is based on one violation of two sampling events occurring in October. In response, the company scheduled a cleaning of its pretreatment system and notified staff of the new cleaning schedule. Samples taken since the cleaning have been below the zinc discharge limit and the company is heading toward compliance.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D
Nature of violation:
2nd Quarter-TRC and chronic violation of the mercury limit listed in its permit
3rd Quarter-TRC and chronic violation of the mercury limit listed in its permit
Current compliance status:
SNC is based on two violations in three sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jeffrey R. Hill, Environmental Program Coordinator, at 610-655-6121.

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2012 to December 31, 2012 along with their current compliance status is as follows:

Cloister Car Wash and Lube

1 Cloister Court

Sinking Spring PA 19608

City of Reading Industrial Waste Permit No. 80A

Nature of violations:

3rd Quarter-TRC violation of the zinc limit listed in its permit

4th Quarter-TRC violation of the zinc limit listed in its permit

Current compliance status:

In 2010, the company began segregating the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the third quarter, the company pumped out the wheel settlement pit and increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. The company has returned to compliance.

Clover Farms Dairy

3300 Pottsville Pike

Reading PA 19605

City of Reading Industrial Waste Permit No. 47H

Nature of violation:

3rd Quarter-TRC and chronic violation of the oil and grease (HEM) limit listed in its permit

Current compliance status:

The company had a Consent Agreement with the City of Reading that was signed on December 29, 2006 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to automate these changes and to add a system for pH compliance. In December 2012, an automated skimmer system to remove floatables including oil and grease was installed in the pretreatment tank. The company is currently in compliance.

Hofmann Industries, Inc.

3145 Shillington Road

Sinking Spring PA 19608

City of Reading Industrial Waste Permit No. 18G

Nature of violation:

4th Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit

Current compliance status:

This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The company had one sample which caused a high monthly average in October. The company took its normal allotment of samples the following month none of which yielded high results, but which yielded a high monthly average for that month. Extra sampling was done by both the company and the City. Some of the samples have remained above the discharge limit. No cause of the problem has yet been determined. The company remains in SNC however excellent progress has been made toward solving the problem as the last two month's averages have been in compliance.

Interstate Container LLC

100 Grace Street

Reading, PA 19611

City of Reading Industrial Waste Permit No. 20H

Nature of violation:

3rd Quarter-TRC violation of the color limit listed in its permit

3rd Quarter-Failure to report

Current compliance status:

The company had an issue with a leak in a tank involved in the waste water pretreatment process which caused a high color reading. This problem was solved. The company then failed to report a high color result in a timely fashion as well as not reporting the result of the follow up sample which was also high. Subsequent test results during the remaining months were within an acceptable range and the company is currently in compliance.

Sealed Air Corporation

450 Riverfront Drive

Reading, PA 19602

City of Reading Industrial Waste Permit No. 60G

Nature of violation:

2nd Quarter-TRC violation of the lead limit listed in its permit

Current compliance status:

This company is a categorical industry. A sample taken by the company's independent laboratory showed a lead violation. No reason was found for this test result. The company had a second sample taken in the proper time frame. Additionally, the City began taking a sample for lead during its monthly industrial waste water sampling. All subsequent test results were below the company's discharge limit. The company is in compliance.

Yuasa Inc

2901 Montrose Avenue

Laureldale, PA 19605

City of Reading Industrial Waste Permit No. 35G

Nature of violation:

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 001

3rd Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

3rd Quarter-TRC and chronic violation of the monthly average lead limit listed in its permit at outfall 002

4th Quarter-TRC and chronic violation of the lead limit listed in its permit at outfall 002

4th Quarter-TRC violation of the monthly average lead limit listed in its permit at outfall 002

4th Quarter-Failure to report

Current compliance status:

This company is a categorical industry and therefore has a maximum monthly average limit for a number of parameters including lead. Upon investigation, the company discovered that it had received a shipment of lead oxide which was out of specifications and was subsequently removed from the plant. The company adjusted the chemicals used in the pretreatment process and did additional sampling. New train filters were installed in October. The results of all tests since that time have been under the limit and the company has been in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C

Nature of violations:

3rd Quarter-Failure to report

4th Quarter-Failure to report

Current compliance status:

The company did not submit either the third quarter or the fourth quarter self monitoring report within 30 days after the due date. The reports have not been turned in as of this writing. The company remains in SNC.

Penske Truck Leasing
255 Penske Plaza
Reading, PA 19602
City of Reading Industrial Waste Permit No. M017D

Nature of violations:

4th Quarter-TRC violation of the zinc limit listed in its permit

Current compliance status:

SNC is based on one violation of two sampling events occurring in October. In response, the company scheduled a cleaning of its pretreatment system and notified staff of the new cleaning schedule. Samples taken since the cleaning have been below the zinc discharge limit and the company is heading toward compliance.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D

Nature of violation:

2nd Quarter-TRC and chronic violation of the mercury limit listed in its permit

3rd Quarter-TRC and chronic violation of the mercury limit listed in its permit

Current compliance status:

SNC is based on two violations in three sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jeffrey P. Hill, Environmental Program Coordinator, at 610-655-6121.

APPENDIX 6

ENFORCEMENT ACTIONS

2012 ENFORCEMENT ACTIONS

Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Akzo Nobel Coatings	None	1	None	\$100	1 zinc
Aramark Uniform Services	None	1	None	\$100	1 pH
The Bachman Company	None	2	None	\$200	1 pH, 1 oil and grease (HEM)
Berks Packing Company	None	4	None	\$550	1 oil and grease (HEM), 1 pH, 1 late sampling, 1 zinc
Carpenter Technology	None	None	None		
Cloister Car Wash and Lube 344 2	None	5	None	\$1,700	* 2 copper, 3 zinc
Clover Farms Dairy 3Q	None	34	None	\$66,000	* 14 pH, 19 oil and grease (HEM), 1 copper
Crescent Brass Manufacturing	None	None	None		
Crossroads Beverage	None	None			
Cryovac Food Packaging	None	None	None		
Dairy Farmers of America	None	3	None	\$4,200	* 2 pH, 1 oil and grease (HEM)
Evergreen Community Power	None	1	None	\$50	1 late report
Exide - Plant One	None	None	None		
Plant Two	None	None	None		
Reading Recycling	None	None	None		
Hofmann Industries 4Q	None	3	None	\$300	3 zinc
IFS Industries	None	4	None	\$6,200	2 phenolics, 2 oil and grease (HEM)
Interstate Container 3Q	None	3	None	\$300	3 colors
Lentz Milling	None	None	None		
National/Yorgey's Cleaners	None	None	None		
Orograin Bakeries	None	1	None	\$100	1 pH
Packaging Corp. of America	None	2	None	\$300	1 late report, 1 late sampling
Prizer Painter Stove Works	None	3	None	\$250	1 pH, 1 oil and grease (HEM), 1 late report
Quadrant EEP USA	None	None	None		
Quaker Maid Meats	None	1	None	\$100	1 oil and grease (HEM)
Reading Eagle Company	None	None	None		
Reading Plating & Polishing	None	1	None	\$100	1 pH
Reading Truck Body	None	1	None	\$50	1 late report
Reitech Corporation	None	None	None		
Sealed Air Corporation 2Q	None	1	None	\$100	1 lead
St Joseph Downtown	None	None	None		
Summit Steel and Manufacturing	None	None	None		
Sun Rich Fresh Foods	None	1	None	\$50	1 late report
Sweet Street Desserts	None	None	None		

2012 ENFORCEMENT ACTIONS

Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Termaco USA	None	2	None	\$500	1 late sampling, 1 failure to submit spill plan revisions
Tom Sturgis Pretzels	None	1	None	\$100	1 pH
United Corrstack	None	1	None	\$100	1 oil and grease (SGT-HEM)
Yuasa Battery 3, 4, 5	None	14	None	\$1,400	1 mercury, 13 lead
TOTAL	0	90	0	\$82,850	

Initial fines for violations are as follows:

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000
Failure to maintain pretreatment records/documents on site	\$500

NOTES ON FINES ADMINISTERED:

Cloister Car Wash and Lube: Zinc violations were fined at \$500 per occurrence.

Clover Farms Dairy: pH violations were fined at \$100 per occurrence in the first quarter. 4 were fined at this rate. The fine was raised to \$250 in the second quarter. 10 were fined at this rate. Oil and grease (HEM) violations were fined at \$3000 per occurrence in the first and second quarters. 7 were fined at this rate. Oil and grease (HEM) violations were escalated to \$3500 in the third quarter. 12 were fined at this rate.

Dairy Farmers of America: Oil and grease violations (HEM) were fined at \$4000 per occurrence.

IFS Industries: 2 oil and grease (HEM) were fined at \$3000.

Termaco: Late sampling and failure to submit spill plan revision timely were each fined at \$250.

2012 ENFORCEMENT ACTIONS

Non-Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Air Liquide	None	1	None	\$100	1 copper
Diesel Service	None	None	None		
NGK Metals Corporation	None	None	None		
Paragon Optical	None	2	None	\$2,000	2 failures to report
Pennsylvania Truck Centers	None	None	None		
Penske Truck Leasing	None	1	None	\$100	1 zinc
Remcon Plastics	None	None	None		
Rohm & Haas Chemicals - R&D Lab	None	None	None		
Ultra Wash of Philadelphia	None	None	None		
Unique Pretzel Bakery	None	2	None	\$200	2 mercury
Van Bennett Food Company	None	None	None		
WORLD electronics	None	None	None		
TOTAL	0	6	0	\$2,400	

Initial fines for violations are as follows:

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000

City of Reading Industrial Pretreatment
Penalty Payment Status
Industrial Waste Register Bill Summary
1/1/2012 to 3/31/2013

<u>License No.</u>	<u>Name</u>	<u>Issue Date</u>	<u>Comments</u>	<u>Billed</u>	<u>Paid</u>	<u>PaidDate</u>
January 2012						
FINES - 54-07-00-3622						
331155	ARAMARK UNIFORM SERVICES	01/04/2012	2011-3RD Q	\$200.00	-\$200.00	01/20/2012
331620	BERKS PACKING	01/04/2012	2011-3RD Q	\$100.00	-\$100.00	01/25/2012
341901	CLOISTER CAR WASH AND LUBE	01/04/2012	2011-3RD Q	\$1,000.00	-\$1,000.00	01/27/2012
337763	CRESCENT BRASS MANUFACTURING	01/04/2012	2011-3RD Q	\$100.00	-\$100.00	02/04/2012
337763	CRESCENT BRASS MANUFACTURING	01/17/2012		\$265.05	-\$265.05	01/23/2012
337766	EXIDE CORPORATION	01/04/2012	2011-3RD Q	\$400.00	-\$400.00	03/05/2012
336996	NATIONAL/YORGEY'S CLEANERS	01/04/2012	2011-3RD Q	\$200.00	-\$200.00	02/23/2012
364195	OROGRAIN MFG BAKERIES	01/04/2012	2011-3RD Q	\$300.00	-\$300.00	02/07/2012
337731	PARAGON OPTICAL	01/04/2012	2011-3RD Q	\$600.00	\$0.00	#####
340271	READING TRUCK BODY LLC	01/04/2012	2011-3RD Q	\$250.00	-\$250.00	02/15/2012
				\$3,415.05	(\$2,815.05)	
April 2012						
FINES - 54-07-00-3622						
341901	CLOISTER CAR WASH AND LUBE	04/05/2012	2011-4TH Q	\$500.00	-\$500.00	04/24/2012
331117	CLOVER FARMS DAIRY	04/05/2012	2011-4TH Q	\$200.00	-\$200.00	05/07/2012
337763	CRESCENT BRASS MANUFACTURING	04/13/2012		\$265.05	\$0.00	#####
337763	CRESCENT BRASS MANUFACTURING	04/05/2012		\$795.15	-\$795.15	04/17/2012
365363	DAIRY FARMERS OF AMERICA	04/05/2012	2011-4TH Q	\$4,100.00	-\$4,100.00	05/07/2012
336996	NATIONAL/YORGEY'S CLEANERS	04/12/2012	2011-4TH Q	\$100.00	-\$100.00	01/02/2013
337731	PARAGON OPTICAL	04/12/2012	2011-4TH Q	\$100.00	\$0.00	#####
337723	ST JOSEPH MEDICAL CENTER	04/12/2012	2011-4TH Q	\$600.00	-\$600.00	05/08/2012
				\$6,660.20	(\$6,295.15)	
June 2012						
FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	06/22/2012		\$265.05	-\$265.05	07/10/2012
337763	CRESCENT BRASS MANUFACTURING	06/22/2012		\$265.05	-\$265.05	07/10/2012
				\$530.10	(\$530.10)	

July 2012

FINES - 54-07-00-3622

331620	BERKS PACKING	07/25/2012	2012-1ST Q	\$100.00	-\$100.00	08/09/2012
341901	CLOISTER CAR WASH AND LUBE	07/25/2012	2012-1ST Q	\$100.00	-\$100.00	08/29/2012
331117	CLOVER FARMS DAIRY	07/25/2012	2012-1ST Q	\$3,400.00	-\$3,400.00	08/20/2012
337763	CRESCENT BRASS MANUFACTURING	07/09/2012		\$265.05	-\$265.05	07/10/2012
331089	IFS INDUSTRIES	07/25/2012	2012-1ST Q	\$200.00	-\$200.00	08/09/2012
337726	READING PLATING & POLISHING	07/25/2012	2012-1ST Q	\$100.00	-\$100.00	08/09/2012
337716	TOM STURGIS PRETZELS INC	07/25/2012	2012-1ST Q	\$100.00	-\$100.00	08/07/2012
				\$4,265.05	(\$4,265.05)	

September 2012

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	09/19/2012		\$265.05	-\$265.05	09/24/2012
337763	CRESCENT BRASS MANUFACTURING	09/19/2012		\$265.05	-\$265.05	09/24/2012
				\$530.10	(\$530.10)	

October 2012

FINES - 54-07-00-3622

333620	ROBESON TOWNSHIP	10/22/2012	2ND QTR 2012	\$2,991.85	\$0.00	#####
				\$2,991.85	\$0.00	

November 2012

FINES - 54-07-00-3622

365365	AKZO NOBEL COATINGS	11/15/2012	2012-2ND Q	\$100.00	-\$100.00	01/10/2013
331620	BERKS PACKING	11/15/2012	2012-2ND Q	\$250.00	-\$250.00	12/10/2012
341901	CLOISTER CAR WASH AND LUBE	11/15/2012	2012-2ND Q	\$500.00	-\$500.00	12/10/2012
331117	CLOVER FARMS DAIRY	11/15/2012	2012-2ND Q	\$18,850.00	-\$18,850.00	12/10/2012
337763	CRESCENT BRASS MANUFACTURING	11/08/2012		\$265.05	-\$265.05	11/16/2012
337763	CRESCENT BRASS MANUFACTURING	11/13/2012		\$265.05	-\$265.05	11/16/2012
349094	EVERGREEN COMMUNITY POWER	11/15/2012	2012-2ND Q	\$50.00	-\$50.00	12/19/2012
331089	IFS INDUSTRIES	11/15/2012	2012-2ND Q	\$3,000.00	-\$3,000.00	12/10/2012
331628	INTERSTATE CONTAINER READING	11/15/2012	2012-2ND Q	\$100.00	-\$100.00	12/10/2012
366313	PACKAGING CORP OF AMERICA	11/15/2012	2012-2ND Q	\$250.00	-\$250.00	12/10/2012
331621	PRIZER PAINTER STOVE WORKS	11/15/2012	2012-2ND Q	\$100.00	-\$100.00	12/19/2012
331097	SEALED AIR CORP	11/15/2012	2012-2ND Q	\$100.00	-\$100.00	12/19/2012
345103	SUN RICH FRESH FOODS INC	11/15/2012	2012-2ND Q	\$50.00	-\$50.00	12/19/2012

358062	TERMACO USA	11/15/2012	2012-2ND Q	\$500.00	-\$500.00	12/19/2012
337715	UNIQUE PRETZELS	11/15/2012	2012-2ND Q	\$200.00	-\$200.00	12/04/2012
337713	UNITED CORRSTACK	11/15/2012	2012-2ND Q	\$100.00	-\$100.00	12/10/2012
337710	YUASA BATTERY INC	11/15/2012	2012-2ND Q	\$300.00	-\$300.00	12/10/2012
				<u>\$24,980.10</u>	<u>(\$24,980.10)</u>	

December 2012

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	12/27/2012		\$265.05	-\$265.05	01/09/2013
				<u>\$265.05</u>	<u>(\$265.05)</u>	

January 2013

FINES - 54-07-00-3622

337759	AIR LIQUIDE	01/09/2013	3RD Q 2012	\$100.00	-\$100.00	01/24/2013
337760	BACHMAN COMPANY	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/06/2013
341901	CLOISTER CAR WASH AND LUBE	01/09/2013	2012-3RD Q	\$600.00	-\$600.00	01/31/2013
331117	CLOVER FARMS DAIRY	01/09/2013	2012-3RD Q	\$28,250.00	-\$28,250.00	02/14/2013
337763	CRESCENT BRASS MANUFACTURING	01/23/2013		\$265.05	-\$265.05	01/24/2013
331628	INTERSTATE CONTAINER READING	01/09/2013	2012-3RD Q	\$200.00	-\$200.00	03/28/2013
364195	OROGRAIN MFG BAKERIES	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/14/2013
331094	QUAKER MAID MEATS	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/28/2013
340271	READING TRUCK BODY LLC	01/09/2013	2012-3RD Q	\$50.00	-\$50.00	02/05/2013
337710	YUASA BATTERY INC	01/09/2013	2012-3RD Q	\$1,100.00	-\$1,100.00	01/31/2013
				<u>\$30,865.05</u>	<u>(\$30,865.05)</u>	

February 2013

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	02/07/2013		\$265.05	-\$265.05	02/14/2013
				<u>\$265.05</u>	<u>(\$265.05)</u>	

Grand Total : \$74,767.60 (\$70,810.70)

NOTES: April - Crescent Brass Manufacturing appears in other reports as an adjustment or correction entered in error, not unpaid
October - Robeson Township appears in other reports as an adjustment or correction to proper account, not unpaid

Corrected Grand Total: \$71,510.70 (\$70,810.70)

APPENDIX 8

DATA MONITORING SPREADSHEET

QUARTERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

**ANNUAL PRIORITY POLLUTANT SCANS
ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS**

PERFORMED:

7/8-9/2012:	Influent
7/8-9/2012:	Effluent
7/3/2012:	Biosolids

**2012 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND
PLANT EFFLUENT**

MONTHLY FECAL COLIFORM TESTING FOR BIOSOLIDS

MONTHLY 503 ANALYSIS FOR BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 1/3/2012 AND 8/7/2012

Additional Testing for bis(2-Ethylhexyl)phthalate and semivolatiles on
Plant Influent, Effluent, and Biosolids

2012 Influent Testing for TKN, Total Phosphorus, and O-Phosphate

PA DEP Letter and NPDES Amendment for Mercury Limit

[illegible]

Facility Name:	CITY OF READING WWTP
Facility ID:	PAP026549
Location:	INFLUENT

[illegible]

DTfi

Entry Count

65 Total

4

4

4

4

4

4

4

4

4

4

4

1

4

4

4

4

4

0

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[illegible]

[illegible]

[illegible]

[illegible]

Journal of Management Studies

4

[illegible]

1. *Phragmites australis* (Cav.) Trin. ex Steud.

1000



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



1st QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 03/14/12
Lab ID: 124-12-0009903

Date Collected: 03/05/12 08:18
Collected By: Client

Sample Desc: Raw 12-2070 (Composite) *Influent*

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.5	mg/L	.5	10	SM 4500P-E	03/08	10:45	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	03/13	16:53	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Chromium, Total	0.029	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Copper, Total	0.083	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Lead, Total	0.01	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Mercury, Total	0.0002	mg/L	.0001	1	EPA 245.1	03/13	11:22	RLS
Molybdenum, Total	0.07	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Nickel, Total	0.019	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	03/12	12:37	LNA
Zinc, Total	0.296	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/L	10	1	EPA 625	03/12	16:16	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	03/09	10:00	MEB

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

MAR 15 2012

Date of Report: 03/14/12
Lab ID: 124-12-0009903

Date Collected: 03/05/12 08:18
Collected By: Client

Sample Desc: Raw 12-2070 (Composite) *Influent*

Date Received: 03/07/12 15:35

Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	--------------	------------------	-----------	--------------	--------------	---------

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe

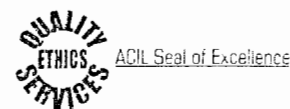
Richard Wolfe
Technical Director

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MEI AC accreditations for various drinking water, wastewater and solid & chemical materials analysis.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

MAR 15 2012
6:10 PM

Date of Report: 03/14/12
Lab ID: 124-12-0009902

Date Collected: 03/06/12 08:19
Collected By: Client

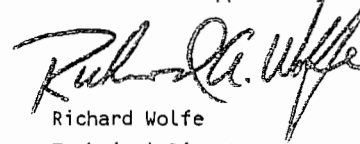
Sample Desc: Raw 12-2071 (Grab) *Influent*

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	03/09	10:23	ALD
Cyanide, Total	0.007	mg/L	.004	1	10204001X	03/09	10:23	ALD
Phenols (4AAP)	0.056	mg/L	.01	1	EPA 420.4	03/09	13:34	ALD
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	11	mg/L	5	1	EPA 1664	03/08	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	03/08	15:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



1st QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED
MAR 15 2012
DEPT. OF PUBLIC WORKS

Date of Report: 03/14/12
Lab ID: 124-12-0009911

Date Collected: 03/05/12 09:23
Collected By: Client


Date Received: 03/07/12 15:35

Sample Desc: Final 12-2084 (Composite) *Effluent*

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.24	mg/L	.25	5	SM 4500P-E	03/08	10:45	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	03/13	16:53	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Copper, Total	0.022	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	03/13	11:22	RLS
Molybdenum, Total	0.05	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Nickel, Total	0.010	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	03/12	12:37	LNA
Zinc, Total	0.072	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/L	10	1	EPA 625	03/12	16:16	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	03/09	10:00	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 03/14/12
Lab ID: 124-12-0009911

Date Collected: 03/05/12 09:23
Collected By: Client

Sample Desc: Final 12-2084 (Composite)

Effluent

Date Received: 03/07/12 15:35

Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	--------------	------------------	-----------	--------------	--------------	---------

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe

Richard Wolfe
Technical Director

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Reading PA 19601

MAR 15 2012
DEPT. OF PUBLIC WORKS

Date of Report: 03/14/12
Lab ID: 124-12-0009901

Date Collected: 03/06/12 07:50
Collected By: Client

Sample Desc: Final 12-2067 (Grab)

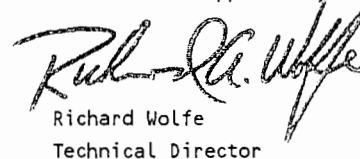
Effluent

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/L	.004	1	DEP 1	03/09	10:23	ALD
Cyanide, Total	0.005	mg/L	.004	1	10204001X	03/09	10:23	ALD
Phenols (4AAP)	0.018	mg/L	.01	1	EPA 420.4	03/09	13:34	ALD
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	03/08	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	03/08	15:00	WXC

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1st Qtr

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815 Washington St.
Reading PA 19601

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MAR 15 2012
CITY OF READING WWTP

Date of Report: 03/14/12
Lab ID: 124-12-0009912

Date Collected: 03/05/12 10:19
Collected By: Client


Sample Desc: 6th 12-2088 (Composite)

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.5	mg/L	.5	10	SM 4500P-E	03/08	10:45	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	03/13	16:53	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Chromium, Total	0.046	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Copper, Total	0.066	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	03/13	11:22	RLS
Molybdenum, Total	0.10	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Nickel, Total	0.023	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	03/12	12:37	LNA
Zinc, Total	0.260	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA

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815 Washington St.
Reading PA 19601

Date of Report: 03/12/12
Lab ID: 124-12-0009910

Date Collected: 03/06/12 10:22
Collected By: Client

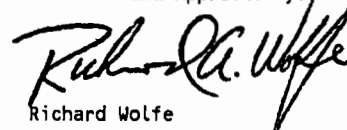
Sample Desc: 6th 12-7089 (Grab)

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	03/09	10:23	ALD
Cyanide, Total	0.012	mg/L	.004	1	10204001X	03/09	10:23	ALD
Phenols (4AAP)	0.131	mg/L	.01	1	EPA 420.4	03/09	13:34	ALD
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	25	mg/L	5	1	EPA 1664	03/08	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	03/08	15:00	WXC

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815 Washington St.
Reading PA 19601

Date of Report: 03/14/12
Lab ID: 124-12-0009913

Date Collected: 03/05/12 10:40
Collected By: Client

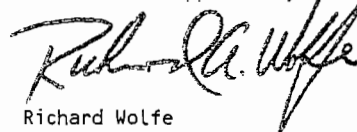
Sample Desc: GC 12-2090 (Composite)

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.8	mg/L	.5	10	SM 4500P-E	03/08	10:45	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	03/13	16:53	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Copper, Total	0.068	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Mercury, Total	0.0002	mg/L	.0001	1	EPA 245.1	03/13	11:22	RLS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.7	03/09	11:17	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	03/12	12:37	LNA
Zinc, Total	0.244	mg/L	.005	1	EPA 200.7	03/09	11:17	LNA

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Date of Report: 03/12/12
Lab ID: 124-12-0009909

Date Collected: 03/06/12 10:42
Collected By: Client

Sample Desc: GC 12-2091 (Grab)

Date Received: 03/07/12 15:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	03/09	10:23	ALD
Cyanide, Total	<.004	mg/L	.004	1	10204001X	03/09	10:23	ALD
Phenols (4AAP)	0.105	mg/L	.01	1	EPA 420.4	03/09	13:34	ALD
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	14	mg/L	5	1	EPA 1664	03/08	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	03/08	15:00	WXC

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Technical Director

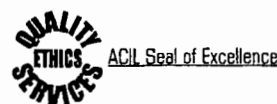
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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 01/17/12
Lab ID: 0124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Description: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 + Qtr
plus Quarterly Analysis)

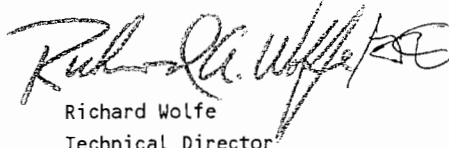
* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2.17	* mg/kg	2.17	DEP 1	01/06	16:06	jcl
Cyanide, Reactive	<140	* mg/kg	140	SW846 7.3	01/06	16:06	jcl
Cyanide, Total	4	* mg/kg	2	10204001X	01/06	16:06	jcl
Phenols (4AAP)	28	* mg/kg	5.4	EPA 420.4	01/06	13:41	jcl
Phosphorus as P, Total	17100	* mg/kg	679	SM 4500P-E	01/11	14:00	ald
OTHER							
Paint Filter Liquids Test	NoFreeLiquid	NA	1	SW846 9095	01/11	17:49	whc
PHYSICAL							
Corrosivity	NotCorrosive	su	1	SW846 7.2	01/12	12:50	whc
Ignitability	NotIgnitable	None	1	SW846 1030	01/11	17:58	whc
pH	8.26	su	2	SW846 9045	01/06	11:50	emw
Reactivity	NotReactive	NA	1	SW846 7.3	01/13	08:30	ald
Visual Color	dark grey	na	1	VISUAL	01/13	08:30	ald
RESIDUES							
Solids, Total Volatile	65.6	%	1	SM 2540G	01/05	17:00	jxs
Total Solids	18.4	%	1	SM 2540G	01/06	17:00	jxs
TITRATIONS							
Sulfide, Reactive	554	* mg/kg	272	SW846 7.3	01/10	19:25	whc
INORGANIC							
TOTAL							
Arsenic, Total	2	* mg/kg	0.5	EPA 200.9	01/10	14:52	rls
Barium, Total	430	* mg/kg	2.72	SW846 6010	01/13	10:52	lna
Cadmium, Total	5	* mg/kg	3	SW846 6010	01/13	10:52	lna
Chromium, Total	100	* mg/kg	2.72	SW846 6010	01/13	10:52	lna
Copper, Total	652	* mg/kg	5.43	SW846 6010	01/13	10:52	lna
Lead, Total	130	* mg/kg	5.4	SW846 6010	01/13	10:52	lna
Mercury, Total	7.6	* mg/kg	1.1	SW846 7471	01/10	11:47	jaw

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Technical Director

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Reported to: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 01/17/12
Lab ID: 0124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Description: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43
plus Quarterly Analysis)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Molybdenum, Total	50	* mg/kg	5	SW846 6010	01/13	10:52	lna
Nickel, Total	48	* mg/kg	2.7	SW846 6010	01/13	10:52	lna
Selenium, Total	6.5	* mg/kg	1.1	EPA 200.9	01/10	21:43	rls
Silver, Total	9.8	* mg/kg	2.7	SW846 6010	01/11	10:52	lna
Zinc, Total	1630	* mg/kg	2.72	SW846 6010	01/13	10:52	lna
O&G/TPH							
GENERAL							
Oil and Grease	50880	* mg/L	27.17	EPA 1664	01/05	07:15	wxc
Total Petroleum Hydrocarbons	14950	* mg/L	27.17	EPA 1664	01/06	11:45	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<27.2	* mg/kg	27.2	SW846 8270	01/11	17:26	meb
EXTRACTION							
SW846 8082 Extraction	complete	mg/L	1	SW846 8082	01/05	13:00	jlv
SW846 8270 Extraction	complete	mg/L	1	SW846 8270	01/09	13:00	jlv
PCBS							
PCB-1016	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1221	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1232	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1242	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1248	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1254	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1260	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh

COMMENTS:

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

2 - The Phenols matrix spike was high indicating possible sample matrix interference.

Distribution of Report:
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Reviewed and Approved By:

Richard Wolfe

Richard Wolfe

Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 20 2012
6:11 PM

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.4	mg/kg	.4	1	DEP 1	01/06	16:06	JCL
Cyanide, Reactive	<25	mg/kg	25	1	SW846 7.3	01/06	16:06	JCL
Cyanide, Total	0.8	mg/kg	.4	1	10204001X	01/06	16:06	JCL
Phenols (4AAP)	5.1	mg/kg	1	1	EPA 420.4	01/06	13:41	JCL
Phosphorus as P, Total	3140	mg/kg	125	25	SM 4500P-E	01/11	14:00	ALD
OTHER								
Paint Filter Liquids Test	NoFreeLiquid	NA	1	1	SW846 9095	01/11	17:49	WHC
PHYSICAL								
Corrosivity	NotCorrosive	su	1	1	SW846 7.2	01/12	12:50	WHC
Ignitability	NotIgnitable	None	1	1	SW846 1030	01/11	17:58	WHC
pH	8.26	su	2	1	SW846 9045	01/06	11:50	EMW
Reactivity	NotReactive	NA	1	1	SW846 7.3	01/13	08:30	ALD
Visual Color	dark grey	na	1	1	VISUAL	01/13	08:30	ALD
RESIDUES								
Solids, Total Volatile	65.6	%	1	1	SM 2540G	01/05	17:00	JXS
Total Solids	18.4	%	1	1	SM 2540G	01/06	17:00	JXS
TITRATIONS								
Sulfide, Reactive	102	mg/kg	50	1	SW846 7.3	01/10	19:25	WHC
INORGANIC								
TOTAL								
Arsenic, Total	0.4	mg/kg	.1	1	EPA 200.9	01/10	14:52	RLS
Barium, Total	79.1	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Cadmium, Total	0.9	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Chromium, Total	18.5	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Copper, Total	120	mg/kg	1	1	SW846 6010	01/13	10:52	LNA
Lead, Total	24	mg/kg	1	1	SW846 6010	01/13	10:52	LNA
Mercury, Total	1.4	mg/kg	.2	1	SW846 7471	01/10	11:47	JAW
Molybdenum, Total	9	mg/kg	1	1	SW846 6010	01/13	10:52	LNA

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Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 20 2012
12:11 PM

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Nickel, Total	8.8	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Selenium, Total	1.2	mg/kg	.2	1	EPA 200.9	01/10	21:43	RLS
Silver, Total	1.8	mg/kg	.5	1	SW846 6010	01/11	10:52	LNA
Zinc, Total	300	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
O&G/TPH								
GENERAL								
Oil and Grease	9363	mg/L	5	1	EPA 1664	01/05	07:15	WXC
Total Petroleum Hydrocarbons	2751	mg/L	5	1	EPA 1664	01/06	11:45	WXC
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	mg/kg	5	10	SW846 8270	01/11	17:26	MEB
EXTRACTION								
SW846 8082 Extraction	complete	mg/L	1	1	SW846 8082	01/05	13:00	JLV
SW846 8270 Extraction	complete	mg/L	1	1	SW846 8270	01/09	13:00	JLV
PCBS								
PCB-1016	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1221	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1232	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1242	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1248	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1254	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1260	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH

COMMENTS

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Reading PA 19601

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	------------	---------------	-----------	-----------	-----------	---------

01 The Phenols matrix spike was high indicating possible sample matrix interference.

02 The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

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JAN 20 2012

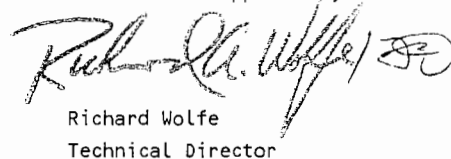
Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.93	su	1	1	SW846 9040	01/06	07:30	JAW
pH, Leachate	5.64	su	1	1	SW846 9040	01/06	07:30	JAW
INORGANIC								
EXTRACTION								
TCLP Preparation	<1	Complete	1	1	EPA 1311	01/06	07:30	JAW
TCLP								
Arsenic, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Barium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Cadmium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Chromium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Iron, TCLP	<.2	mg/L	.2	1	SW846 6010	01/10	11:01	LNA
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	01/06	10:17	LNA
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	01/10	11:47	JAW
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	01/06	10:17	LNA
Nickel, TCLP	0.06	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Selenium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Silver, TCLP	<.05	mg/L	.05	1	SW846 6010	01/11	10:52	LNA
Zinc, TCLP	0.26	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Cresols, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Pentachlorophenol, TCLP	<250	ug/L	250	1	SW846 8270	01/11	07:54	MEB
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Hexachlorobenzene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB

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Reading PA 19601

Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)

JAN 20 2012

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Hexachloroethane, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Nitrobenzene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Pyridine, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
EXTRACTION								
SM 6640B Extraction	complete	mg/L	1	1	SM 6640B	01/10	07:00	JLV
SW846 8081 Extraction	complete	ug/L	1	1	SW846 8081	01/10	07:00	KLE
SW846 8270 Extraction	complete	mg/L	1	1	SW846 8270	01/09	07:00	JLV
HERBICIDES								
2,4,5-TP Silvex, TCLP	<1	ug/L	1	1	SM 6640B	01/12	20:49	TWH
2,4-D, TCLP	<1	ug/L	1	1	SM 6640B	01/12	20:49	TWH
PESTICIDES								
Chlordane, TCLP	<5	ug/L	5	1	SW846 8081	01/12	01:40	TWH
Endrin, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Heptachlor (and hydroxide), TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Heptachlor Epoxide, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Lindane, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Methoxychlor, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Toxaphene, TCLP	<10	ug/L	10	1	SW846 8081	01/12	01:40	TWH
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Benzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Chlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Chloroform, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/L	200	1	SW846 8260	01/11	10:44	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF

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Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)


	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	01/11	10:44	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/l	100	1	SW846 8260	01/11	10:44	GXF

COMMENTS

- 01 The sw846 8270 method QC had low recovery for Pyridine but the other quality control sample was fine for this compound.

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Date of Report: 01/17/12
Lab ID: 124-12-0001408
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: ASTM * 12-107 Biosolids (Belt Press Sludge, Form 43)

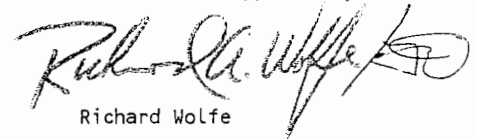
	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	70	mg/L	5	50	D6919-03	01/09	20:39	JCL
OTHER								
Chemical Oxygen Demand	305	mg/L	25	1	HACH8000	01/09	09:15	TMH
PHYSICAL								
pH	8.67	su	1	1	SM4500H-B	01/11	11:40	EMW
RESIDUES								
Solids, Total	490	mg/L	5	1	SM 2540B	01/09	14:20	JXS
INORGANIC								
EXTRACTION								
ASTM Preparation		Complete	1	1	ASTM	01/06	07:30	JAW
COG/TPH								
GENERAL								
Oil and Grease	<10	mg/L	10	1	EPA 1664	01/09	08:00	WXC
Total Petroleum Hydrocarbons	<5	mg/L	5	1	EPA 1664	01/09	12:15	WXC

COMMENTS

- 01 The laboratory pH was analyzed beyond the recommended 15 minute holding time.

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Date of Report: 01/17/12
Lab ID: 124-12-0001409
Date Collected: 01/03/12 11:07
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: GC 12-126 (Composite)

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0003	mg/L	.0002	1	EPA 245.1	01/10	11:47	JAW

COMMENTS

- 01 The sample was run as a duplicate with results of 0.0003 and 0.0001 mg/L. The RPD was greater than 20%. Matrix spikes of this sample were acceptable.

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Date of Report: 05/03/12
Lab ID: 124-12-0016279
Date Collected: 4/24/12 RUM
04/25/12 08:47
Collected By: CLIENT

Date Received: 04/25/12 16:15

Sample Desc: RC 12-3673 (Composite) *Influent*

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.1	mg/L	.5	10	SM 4500P-E	04/26	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	17:58	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Chromium, Total	0.016	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Copper, Total	0.075	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	05/02	10:47	RLS
Molybdenum, Total	0.06	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Nickel, Total	0.009	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	05/01	10:00	LNA
Zinc, Total	0.283	mg/L	.05	1	EPA 200.7	04/30	13:05	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	04/27	17:53	TWH
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/26	10:00	JLV

COMMENTS

01 For EPA 625 the Blank had a low Chrysene-d12 internal standard recovery and all results were <RL.

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Date of Report: 05/03/12
Lab ID: 124-12-0016280

Date Collected: 04/25/12 08:45
Collected By: CLIENT

Sample Desc: RG 12-3671 (Grab) *Influent*

Date Received: 04/25/12 16:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/26	15:46	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/26	15:46	JCL
Phenols (4AAP)	0.082	mg/L	.01	1	EPA 420.4	04/26	12:48	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	17	mg/L	5	1	EPA 1664	04/26	13:15	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/27	11:00	WXC

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2nd Qtr

Date of Report: 05/03/12
Lab ID: 124-12-0016277
Date Collected: 04/24/12 08:08
Collected By: CLIENT
Date Received: 04/25/12 16:15

Sample Desc: FC 12-3647 (Composite) *Effluent*

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	2.6	mg/L	.5	10	SM 4500P-E	04/26	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	17:58	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Copper, Total	0.012	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	05/02	10:47	RLS
Molybdenum, Total	0.06	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	05/01	10:00	LNA
Zinc, Total	0.056	mg/L	.05	1	EPA 200.7	04/30	13:05	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	04/27	17:53	TWH
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/26	10:00	JLV

COMMENTS

01 For EPA 625 the Blank and sample had a low Chrysene-d12 internal standard and all results were <RL.

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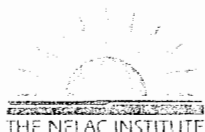
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Date of Report: 05/03/12
Lab ID: 124-12-0016278

Date Collected: 04/25/12 08:15
Collected By: CLIENT

Date Received: 04/25/12 16:15

Sample Desc: FC 12-3651 (Grab) *Effluent*

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CHEMISTRY

COLORMETRIC

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/26	15:46	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/26	15:46	JCL
Phenols (4AAP)	0.030	mg/L	.01	1	EPA 420.4	04/26	12:48	JCL

O&G/TPH

GENERAL

N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	04/26	13:15	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/27	11:00	WXC

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M.J. Reider Associates, Inc.



2nd QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

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Date of Report: 05/03/12
Lab ID: 124-12-0016281

Date Collected: 04/24/12 09:27
Collected By: CLIENT

Sample Desc: 6th 12-3685 (Composite)

Date Received: 04/25/12 16:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.5	mg/L	.5	10	SM 4500P-E	04/26	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	17:58	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Chromium, Total	0.024	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Copper, Total	0.059	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	05/02	10:47	RLS
Molybdenum, Total	0.06	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Nickel, Total	0.010	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	05/01	10:00	LNA
Zinc, Total	0.297	mg/L	.05	1	EPA 200.7	04/30	13:05	LNA

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Richard Wolfe
Technical Director

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Reading PA 19601

Date of Report: 05/03/12
Lab ID: 124-12-0016284

Date Collected: 04/25/12 09:30
Collected By: CLIENT

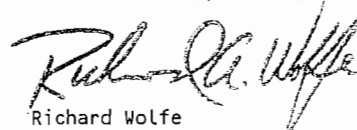
Sample Desc: 6th 12-3686 (Grab)

Date Received: 04/25/12 16:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/26	15:46	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	04/26	15:46	JCL
Phenols (4AAP)	0.054	mg/L	.01	1	EPA 420.4	04/26	12:48	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	48	mg/L	5	1	EPA 1664	04/26	13:15	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/27	11:00	WXC

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Reading PA 19601

Date of Report: 05/03/12
Lab ID: 124-12-0016282

Date Collected: 04/24/12 09:02
Collected By: CLIENT

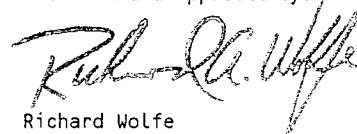
Sample Desc: Grit 12-3683 (Composite)

Date Received: 04/25/12 16:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.2	mg/L	.5	10	SM 4500P-E	04/26	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	17:58	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Copper, Total	0.070	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Mercury, Total	0.0002	mg/L	.0001	1	EPA 245.1	05/02	10:47	RLS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.7	04/30	13:05	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	13:05	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	05/01	10:00	LNA
Zinc, Total	0.220	mg/L	.05	1	EPA 200.7	04/30	13:05	LNA

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Date of Report: 05/03/12
Lab ID: 124-12-0016283
Date Collected: 04/25/12 09:04
Collected By: CLIENT
Date Received: 04/25/12 16:15

Sample Desc: Grit 12-3684 (Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/26	15:46	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/26	15:46	JCL
Phenols (4AAP)	0.059	mg/L	.01	1	EPA 420.4	04/26	12:48	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	16	mg/L	5	1	EPA 1664	04/26	13:15	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/27	11:00	WXC

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Date of Report: 05/15/12
Lab ID: 0124-12-0017271
Date Collected: 05/01/12 08:37
Collected By: Client
Date Received: 05/02/12 15:40

Sample Description: 12-3891 Belt Press Sludge (Composite, Quarterly)

* Results Expressed as Dry Weight

CHEMISTRY

COLORMETRIC

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Cyanide, Free	<2	* mg/kg	2	DEP 1	05/09	15:30	jcl
Cyanide, Total	4	* mg/kg	2	10204001X	05/09	15:30	jcl
Phenols (4AAP)	35	* mg/kg	4.4	EPA 420.4	05/09	12:25	jcl
Phosphorus as P, Total	7970	* mg/kg	5.51	SM 4500P-E	05/14	10:00	jxs

PHYSICAL

Visual Color	See Comment	descrip.	1	VISUAL	05/10	13:45	whc
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RESIDUES

Total Solids	22.7	%	1	SM 2540G	05/07	13:00	JXS
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INORGANIC

Chromium, Total	99.1	* mg/kg	2.20	SW846 6010	05/08	10:57	lna
Silver, Total	7.0	* mg/kg	2.2	SW846 6010	05/07	13:19	lna

O&G/TPH

GENERAL

N-Hexane Extractable Material (O&G)	13660	* mg/kg	1101	EPA 1664	05/07	06:30	wxc
Silica Gel Treated N-Hexane Extract(TPH)	3130	* mg/kg	1100	EPA 1664	05/08	07:00	wxc

ORGANIC

BASE NEUTRALS

Bis(2-Ethylhexyl) phthalate	6.26	* mg/kg	2.20	SW846 8270	05/09	18:02	twh
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EXTRACTION

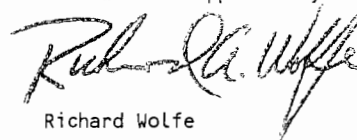
SW846 8270 Extraction	Complete		0	SW846 8270	05/09	07:00	jlv
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COMMENTS:

1 - Color-D: Dark-gray black.

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Date of Report: 05/15/12
Lab ID: 124-12-0017271

Date Collected: 05/01/12 08:37
Collected By: Client

Sample Desc: 12-3891 Belt Press Sludge (Composite, Quarterly)

Date Received: 05/02/12 15:40

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.4	mg/kg	.4	1	DEP 1	05/09	15:30	JCL
Cyanide, Total	0.8	mg/kg	.4	1	10204001X	05/09	15:30	JCL
Phenols (4AAP)	8.0	mg/kg	1	1	EPA 420.4	05/09	12:25	JCL
Phosphorus as P, Total	1810	mg/kg	1.25	25	SM 4500P-E	05/14	10:00	JXS
PHYSICAL								
Visual Color	See Comment	descrip.	1	1	VISUAL	05/10	13:45	WHC
RESIDUES								
Total Solids	22.7	%	1	1	SM 2540G	05/07	13:00	JXS
INORGANIC								
TOTAL								
Chromium, Total	22.5	mg/kg	.5	1	SW846 6010	05/08	10:57	LNA
Silver, Total	1.6	mg/kg	.5	1	SW846 6010	05/07	13:19	LNA
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	3100	mg/kg	250	1	EPA 1664	05/07	06:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	710	mg/kg	250	1	EPA 1664	05/08	07:00	WXC
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	1.42	mg/kg	.5	1	SW846 8270	05/09	18:02	TWH
EXTRACTION								
SW846 8270 Extraction	Complete		0	0	SW846 8270	05/09	07:00	JLV

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Date of Report: 05/15/12
Lab ID: 124-12-0017271
Date Collected: 05/01/12 08:37
Collected By: Client
Date Received: 05/02/12 15:40

Sample Desc: 12-3891 Belt Press Sludge (Composite, Quarterly)

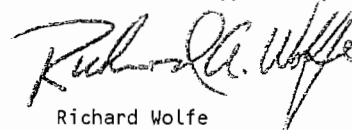
Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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COMMENTS

01 Color-D: Dark-gray black.

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Reported To: City of Reading WWTP
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Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027909

Date Collected: 07/09/12 08:37
Collected By: CLIENT

Sample Desc: RC 12-6126 (Raw Composite, Priority Pollutants/Quarterly) *3rd Qtr-PP Influent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	8.3	mg/l	.5	10	SM 4500P-E	07/12	07:35	ALD
INORGANIC TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	07/13	13:13	RLS
Arsenic, Total	0.001	mg/l	.001	1	EPA 200.9	07/17	16:31	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
Chromium, Total	0.016	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
Copper, Total	0.090	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
Lead, Total	0.02	mg/l	.01	1	EPA 200.7	07/13	10:33	LNA
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	07/17	11:59	RLS
Molybdenum, Total	0.06	mg/l	.01	1	EPA 200.7	07/13	10:33	LNA
Nickel, Total	0.020	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
Selenium, Total	<.002	mg/l	.002	1	EPA 200.9	07/19	12:03	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	07/13	13:13	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	07/18	14:28	RLS
Zinc, Total	0.309	mg/l	.005	1	EPA 200.7	07/13	10:33	LNA
ORGANIC ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	07/16	13:23	TWH
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	07/16	13:23	TWH
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	07/16	13:23	TWH
2-Chlorophenol	<10	ug/l	10	1	EPA 625	07/16	13:23	TWH
2-Nitrophenol	<10	ug/l	10	1	EPA 625	07/16	13:23	TWH
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	07/16	13:23	TWH
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	07/16	13:23	TWH
4-Nitrophenol	<50	ug/l	50	1	EPA 625	07/16	13:23	TWH

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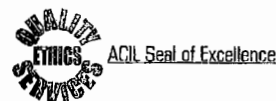
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815 Washington St.
Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027909

Date Collected: 07/09/12 08:37
Collected By: CLIENT


Sample Desc: RC 12-6126 (Raw Composite, Priority Pollutants/Quarterly) *Influent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
Phenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	07/16	13:23	TWH
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Chrysene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027909

Date Collected: 07/09/12 08:37
Collected By: CLIENT

Sample Desc: RC 12-6126 (Raw Composite, Priority Pollutants/Quarterly) *Influent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluoranthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluorene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachloroethane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Isophorone	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Library Search, Semivolatiles	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Naphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Nitrobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Phenanthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	07/16	07:00	JLV
EPA 625 Extraction	Complete		0	0	EPA 625	07/13	07:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PESTICIDES								

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Technical Director

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Date Collected: 07/09/12 08:37
Collected By: CLIENT

Sample Desc: RC 12-6126 (Raw Composite, Priority Pollutants/Quarterly) *Influent*

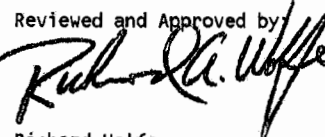
Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Chlordane	<1	ug/l	1	1	EPA 608	07/20	02:30	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	07/20	02:30	TWH

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

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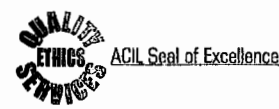
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Lab ID: 124-12-0027909

Date Collected: 07/09/12 08:37
Collected By: CLIENT

Sample Desc: RC 12-6126 (Raw Composite, Priority Pollutants/Quarterly) *Influent*

Date Received: 07/11/12 16:00

- | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--------|------|------------|---------------|-----------|-----------|-----------|---------|
|--------|------|------------|---------------|-----------|-----------|-----------|---------|
- 02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 03 For EPA 625 the QC sample had a low 2-Chloronaphthalene recovery.
- 04 EPA 625 library search tentatively identified 2butoxyethanol tetradecanoic acid, n-hexadecanoic acid, 9octadecenoic acid, octadecanoic acid, cholestan-3-ol,
- 05 For EPA 608 the CCV had a high 4,4'-DDD recovery, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.
- 06 For EPA 608 the sample had low surrogate recoveries.
- 07 The report has been amended to correct the reporting limit for Bis(2-Ethylhexyl) phthalate.

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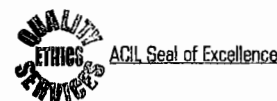
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Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027910

Date Collected: 07/10/12 08:45
Collected By: CLIENT

Sample Desc: RG 12-6129/12-6140/12-6150/12-6155 (Raw Grab, Priority *Influent*)
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/12	15:38	JCL
Cyanide, Total	0.017	mg/L	.004	1	10204001X	07/12	15:38	JCL
Phenols (4AAP)	0.073	mg/L	.01	1	EPA 420.4	07/12	14:21	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	16	mg/L	5	1	EPA 1664	07/12	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/12	13:45	WXC
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Acrolein	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Benzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027910

Date Collected: 07/10/12 08:45
Collected By: CLIENT

Sample Desc: RG 12-6129/12-6140/12-6150/12-6155 (Raw Grab, Priority *Influent*
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Chloroethane	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Chloroform	9	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	07/13	09:06	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Toluene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

COMMENTS

01 VOAs were collected as a 4 Part Grab (#1 at 08:45 on 07/10, #2 at 10:50 on 07/10, #3 at 13:18 on 07/10, #4 at 14:27 on 07/10) which was composited prior to analysis.

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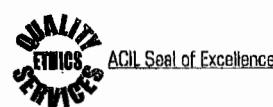
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Collected By: CLIENT

Sample Desc: RG 12-6129/12-6140/12-6150/12-6155 (Raw Grab, Priority *Influent*
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
02 For the epa 624 procedure, the recovery of surrogate Toluene-d8 was high.							

03 The VOC library search tentatively identified 2-Propanol, Acetone, Carbon disulfide, and 1 unknown compound.

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AMENDED

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027914

Date Collected: 07/09/12 07:54
Collected By: CLIENT

Sample Desc: FC 12-6118 (Final Composite, Priority Pollutants/Quarterly) *3rd Qtr - PP Effluent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.2	mg/L	.5	10	SM 4500P-E	07/12	07:35	ALD
INORGANIC TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/17	16:31	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Copper, Total	0.019	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	07/17	11:59	RLS
Molybdenum, Total	0.09	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	07/19	12:03	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	07/13	13:13	RLS
Zinc, Total	0.063	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
ORGANIC ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
2-Chlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Nitrophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
4-Nitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH

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Date of Report: 07/30/12
Lab ID: 124-12-0027914

Date Collected: 07/09/12 07:54
Collected By: CLIENT

Sample Desc: FC 12-6118 (Final Composite, Priority Pollutants/Quarterly) *Effluent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
Phenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	07/16	13:23	TWH
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Chrysene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH

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Reviewed and Approved by:

Richard A. Wolfe

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027914

Date Collected: 07/09/12 07:54
Collected By: CLIENT

Sample Desc: FC 12-6118 (Final Composite, Priority Pollutants/Quarterly) *Effluent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluoranthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluorene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachloroethane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Isophorone	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Library Search, Semivolatiles	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Naphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Nitrobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Phenanthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	07/16	07:00	JLV
EPA 625 Extraction	Complete		0	0	EPA 625	07/13	07:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PESTICIDES								

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Richard Wolfe
Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 07/30/12
Lab ID: 124-12-0027914

Date Collected: 07/09/12 07:54
Collected By: CLIENT

Sample Desc: FC 12-6118 (Final Composite, Priority Pollutants/Quarterly) *Effluent*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDE	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDT	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Aldrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
alpha-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
beta-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Chlordane	<1	ug/L	1	1	EPA 608	07/20	02:30	TWH
delta-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Dieldrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan I	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan II	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan sulfate	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endrin aldehyde	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor Epoxide	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Lindane (Gamma BHC)	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Toxaphene	<10	ug/L	10	1	EPA 608	07/20	02:30	TWH

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

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Date of Report: 07/30/12
Lab ID: 124-12-0027914

Date Collected: 07/09/12 07:54
Collected By: CLIENT

Sample Desc: FC 12-6118 (Final Composite, Priority Pollutants/Quarterly)

Effluent

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

03 The semi-volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

04 For EPA 625 the QC sample had a low 2-Chloronaphthalene recovery.

05 For EPA 608 the CCV had a high 4,4'-DDD recovery, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.

06 For EPA 608 the matrix spike had low PCB recoveries, indicating possible matrix interference.

07 The report has been Amended to correct the reporting limit for Bis(2-Ethylhexyl) phthalate.

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027913

Date Collected: 07/10/12 07:53
Collected By: CLIENT

Sample Desc: FG 12-6119/12-6139/12-6149/12-6154 (Final Grab, Priority *Effluent*)
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/12	15:38	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	07/12	15:38	JCL
Phenols (4AAP)	0.015	mg/L	.01	1	EPA 420.4	07/12	14:21	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	07/12	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/12	13:45	WXC
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Acrolein	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Benzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027913

Date Collected: 07/10/12 07:53
Collected By: CLIENT

Sample Desc: FG 12-6119/12-6139/12-6149/12-6154 (Final Grab, Priority *Effluent*)
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Chloroethane	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Chloroform	6	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	07/13	09:06	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Toluene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

COMMENTS

01 VOAs were collected as a 4 Part Grab (#1 at 07:53 on 07/10, #2 at 10:42 on 07/10, #3 at 13:15 on 07/10, #4 at 14:15 on 07/10) which was composited prior to analysis.

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027913

Date Collected: 07/10/12 07:53
Collected By: CLIENT

Sample Desc: FG 12-6119/12-6139/12-6149/12-6154 (Final Grab, Priority *Effluent*
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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02 The volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

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AMENDED

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/02/12
Lab ID: 124-12-0027918

Date Collected: 07/09/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)


Date Received: 07/11/12 16:00

3rd Qtr - PP

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.9	mg/L	.5	10	SM 4500P-E	07/12	07:35	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Arsenic, Total	0.001	mg/L	.001	1	EPA 200.9	07/17	16:31	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Chromium, Total	0.020	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Copper, Total	0.088	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	08/01	11:59	JXS
Molybdenum, Total	0.07	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Nickel, Total	0.027	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	07/19	12:03	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	07/18	14:28	RLS
Zinc, Total	0.308	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
2-Chlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Nitrophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
4-Nitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH

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Lab ID: 124-12-0027918

Date Collected: 07/09/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
Phenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	07/16	13:23	TWH
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Chrysene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/02/12
Lab ID: 124-12-0027918

Date Collected: 07/09/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluoranthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluorene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachloroethane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Isophorone	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Library Search, Semivolatiles	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Naphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Nitrobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Phenanthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	07/16	07:00	JLV
EPA 625 Extraction	Complete		0	0	EPA 625	07/13	07:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PESTICIDES								

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Date of Report: 08/02/12
Lab ID: 124-12-0027918

Date Collected: 07/09/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDE	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDT	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Aldrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
alpha-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
beta-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Chlordane	<1	ug/L	1	1	EPA 608	07/20	02:30	TWH
delta-BHC	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Dieldrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan I	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan II	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan sulfate	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endrin	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Endrin aldehyde	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor Epoxide	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Lindane (Gamma BHC)	<.5	ug/L	.5	1	EPA 608	07/20	02:30	TWH
Toxaphene	<10	ug/L	10	1	EPA 608	07/20	02:30	TWH

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

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Reading PA 19601

Date of Report: 08/02/12
Lab ID: 124-12-0027918

Date Collected: 07/09/12 09:41
Collected By: CLIENT


Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
02	The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.							
03	For EPA 625 the QC sample had a low 2-Chloronaphthalene recovery and the sample had a high terphenyl-d14 surrogate recovery.							
04	EPA 625 library search tentatively identified, Tetradecanoic acid, n-hexadecanoic acid, 9-octadecenoic acid, Octadecanoic acid, cholestan-3-ol.							
05	For EPA 608 the CCV had a high 4,4'-DDD recovery, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.							
06	For EPA 608 the sample had a low surrogate recovery.							
07	The report has been Amended to correct the reporting limit for Bis(2-Ethylhexyl) phthalate.							

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Sample Desc: 6th 12-6141 (Composite, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
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08 This report has been amended to correct the value for Mercury.

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027919

Date Collected: 07/10/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6142/12-6148/12-6152/12-6157 (Grab, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/12	15:38	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	07/12	15:38	JCL
Phenols (4AAP)	0.109	mg/L	.01	1	EPA 420.4	07/12	14:21	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	25	mg/L	5	1	EPA 1664	07/12	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/12	13:45	WXC
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Acrolein	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Benzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

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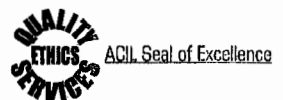

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027919

Date Collected: 07/10/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6142/12-6148/12-6152/12-6157 (Grab, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Chloroethane	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Chloroform	10	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	07/13	09:06	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Toluene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

COMMENTS

- 01 VOAs were collected as a 4 Part Grab (#1 at 09:41 on 07/10, #2 at 11:48 on 07/10, #3 at 13:18 on 07/10, #4 at 14:55 on 07/10) which was composited prior to analysis.

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Date Collected: 07/10/12 09:41
Collected By: CLIENT

Sample Desc: 6th 12-6142/12-6148/12-6152/12-6157 (Grab, Priority Pollutants/Quarterly)

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
02 The VOC library search tentatively identified 2-Propanol, Acetone, Carbon disulfide, Ethanol, and 1 unknown compound.							

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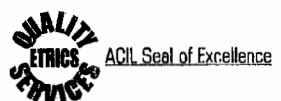
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Date of Report: 07/24/12
Lab ID: 124-12-0027921

Date Collected: 07/09/12 09:18
Collected By: CLIENT

Sample Desc: GC 12-6143 (Grit Chamber Composite, Priority Pollutants/Quarterly) *3rd Qtr - PP Grit*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.2	mg/L	.5	10	SM 4500P-E	07/12	07:35	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/17	16:31	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Copper, Total	0.102	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	07/17	11:59	RLS
Molybdenum, Total	0.03	mg/L	.01	1	EPA 200.7	07/13	10:33	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	07/19	12:03	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	07/13	13:13	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	07/18	14:28	RLS
Zinc, Total	0.287	mg/L	.005	1	EPA 200.7	07/13	10:33	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
2-Chlorophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Nitrophenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
4-Nitrophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027921

Date Collected: 07/09/12 09:18
Collected By: CLIENT

Sample Desc: GC 12-6143 (Grit Chamber Composite, Priority Pollutants/Quarterly) *Grit*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	07/16	13:23	TWH
Phenol	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Acenaphthylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzidine	<20	ug/L	20	1	EPA 625	07/16	13:23	TWH
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Bis(2-Ethylhexyl) phthalate	12	ug/L	10	1	EPA 625	07/16	13:23	TWH
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Chrysene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH

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Date of Report: 07/24/12
Lab ID: 124-12-0027921

Date Collected: 07/09/12 09:18
Collected By: CLIENT

Sample Desc: GC 12-6143 (Grit Chamber Composite, Priority Pollutants/Quarterly) *Grit*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluoranthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Fluorene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Hexachloroethane	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Isophorone	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Library Search, Semivolatiles	see comment	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Naphthalene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Nitrobenzene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Phenanthrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
Pyrene	<10	ug/L	10	1	EPA 625	07/16	13:23	TWH
EXTRACTION								
EPA 608 Extraction	complete	ug/L	1	1	EPA 608	07/16	07:00	JLV
EPA 625 Extraction	complete	ug/L	1	1	EPA 625	07/13	07:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	07/20	02:30	TWH
PESTICIDES								

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Collected By: CLIENT

Sample Desc: GC 12-6143 (Grit Chamber Composite, Priority Pollutants/Quarterly) *Grit*

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Chlordane	<1	ug/l	1	1	EPA 608	07/20	02:30	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	07/20	02:30	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	07/20	02:30	TWH

COMMENTS

- 01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

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Sample Desc: GC 12-6143 (Grit Chamber Composite, Priority Pollutants/Quarterly) *Grit*

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
02 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.							

03 For EPA 625 the QC had a low 2-Chloronaphthalene recovery.

04 EPA 625 library search tentatively identified 2butoxyethanol, Benzoic acid, n-hexadecanoic acid, 9-octadecenoic acid, 2-methoxymethylDioxolane, Cholest-3-ol, cholesterol.

05 For EPA 608 the CCV had a high 4,4'-DDD recovery, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.

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Date of Report: 07/24/12
Lab ID: 124-12-0027922

Date Collected: 07/10/12 09:18
Collected By: CLIENT

Sample Desc: GC 12-4144/12-6147/12-6151/12-6156 (Grit Chamber Grab, Priority *Grit*)
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/12	15:38	JCL
Cyanide, Total	0.007	mg/L	.004	1	10204001X	07/12	15:38	JCL
Phenols (4AAP)	0.060	mg/L	.01	1	EPA 420.4	07/12	14:21	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	14	mg/L	5	1	EPA 1664	07/12	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/12	13:45	WXC
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Acrolein	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	07/13	09:06	GXF
Benzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

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Collected By: CLIENT

Sample Desc: GC 12-4144/12-6147/12-6151/12-6156 (Grit Chamber Grab, Priority *Grit*)
Pollutants/Quarterly)

Date Received: 07/11/12 16:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Chloroethane	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Chloroform	6	ug/L	5	1	EPA 624	07/13	09:06	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	07/13	09:06	GXF
Methylene Chloride	12	ug/L	5	1	EPA 624	07/13	09:06	GXF
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Toluene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	07/13	09:06	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	07/13	09:06	GXF

COMMENTS

01 VOAs were collected as a 4 Part Grab (#1 at 09:18 on 07/10, #2 at 11:34 on 07/10, #3 at 13:01 on 07/10, #4 at 14:41 on 07/10) which was composited prior to analysis.

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Pollutants/Quarterly)

Date Received: 07/11/12 16:00

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
02 The VOC library search tentatively identified 1-Propanol, 2-Propanol, 1-Butanol, Acetone, Isobutyl alcohol, and tert Butyl alcohol.							

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Reading PA 19601

3rd Qtr

Date of Report: 07/24/12
Lab ID: 0124-12-0027131
Date Collected: 07/03/12 08:19
Collected By: Client
Date Received: 07/06/12 16:45

Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	07/10	14:30	jcl
Cyanide, Total	5.1	* mg/kg	2.0	10204001X	07/10	14:30	jcl
Phenols (4AAP)	110	* mg/kg	5.10	EPA 420.4	07/10	12:08	jcl
Phosphorus as P, Total	18200	* mg/kg	638	SM 4500P-E	07/12	07:35	ald
NITROGENS							
Nitrogen, Ammonia	11000	* mg/kg	51	EPA 350.1	07/09	16:22	jcl
OTHER							
Biochemical Oxygen Demand	67857	* mg/L	1020.4	SM 5210B	07/09	16:00	emw
PHYSICAL							
Visual Color	Dark Brown	color	1	VISUAL	07/18	16:25	ald
RESIDUES							
Total Solids	19.6	%	.1	SM 2540G	07/11	09:20	rdd
INORGANIC							
TOTAL							
Antimony, Total	<26	* mg/kg	26	SW846 6010	07/11	10:42	lna
Arsenic, Total	2	* mg/kg	0.5	EPA 200.9	07/11	16:52	rls
Beryllium, Total	<2.55	* mg/kg	2.55	SW846 6010	07/11	10:42	lna
Cadmium, Total	4	* mg/kg	2	SW846 6010	07/11	10:42	lna
Chromium, Total	122	* mg/kg	2.55	SW846 6010	07/11	10:42	lna
Copper, Total	566	* mg/kg	5.10	SW846 6010	07/11	10:42	lna
Lead, Total	150	* mg/kg	5.1	SW846 6010	07/11	10:42	lna
Mercury, Total	2	* mg/kg	1	SW846 7471	07/17	11:59	rls
Molybdenum, Total	76	* mg/kg	5.1	SW846 6010	07/11	10:42	lna
Nickel, Total	41	* mg/kg	2.6	SW846 6010	07/11	10:42	lna
Selenium, Total	5.6	* mg/kg	1.0	EPA 200.9	07/12	13:10	rls
Silver, Total	9.2	* mg/kg	2.6	SW846 6010	07/10	14:40	lna
Thallium, Total	<25.5	* mg/kg	25.5	SW846 6010	07/11	10:42	lna

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Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 0124-12-0027131
Date Collected: 07/03/12 08:19
Collected By: Client
Date Received: 07/06/12 16:45

Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Zinc, Total	1740	* mg/kg	2.55	SW846 6010	07/11	10:42	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	11300	* mg/kg	1276	EPA 1664	07/09	12:00	wxc
Silica Gel Treated N-Hexane Extract(TPH)	3370	* mg/kg	1280	EPA 1664	07/10	09:30	wxc
ORGANIC							
ACID COMPOUNDS							
2,4,6-Trichlorophenol	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2,4-Dichlorophenol	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2,4-Dimethylphenol	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2,4-Dinitrophenol	<128	* mg/kg	128	SW846 8270	07/13	10:40	twh
2-Chlorophenol	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2-Nitrophenol	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
4,6-Dinitro-o-cresol	<128	* mg/kg	128	SW846 8270	07/13	10:40	twh
4-Chloro-3-methylphenol	<51.0	* mg/kg	51.0	SW846 8270	07/13	10:40	twh
4-Nitrophenol	<128	* mg/kg	128	SW846 8270	07/13	10:40	twh
Pentachlorophenol	<128	* mg/kg	128	SW846 8270	07/13	10:40	twh
Phenol	26.8	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
BASE NEUTRALS							
1,2,4-Trichlorobenzene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
1,2-Dichlorobenzene (o-Dichlorobenzene)	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
1,2-Diphenylhydrazine (as Azobenzene)	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
1,3-Dichlorobenzene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
1,4-Dichlorobenzene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2,3,7,8-Tetrachlorodibenzodioxin	see comment	mg/kg	2.5	SW846 8270	07/13	10:40	twh
2,4-Dinitrotoluene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2,6-Dinitrotoluene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
2-Chloronaphthalene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
3,3'-Dichlorobenzidine	<51.0	* mg/kg	51.0	SW846 8270	07/13	10:40	twh

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Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 0124-12-0027131

Date Collected: 07/03/12 08:19
Collected By: Client

Date Received: 07/06/12 16:45

Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
3,4-Benzofluoranthene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
4-Bromophenyl phenyl ether	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
4-Chlorophenyl phenyl ether	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Acenaphthene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Acenaphthylene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Anthracene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Benzidine	<51.0	* mg/kg	51.0	SW846 8270	07/13	10:40	twh
Benzo(a)anthracene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Benzo(a)pyrene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Benzo(ghi)perylene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Benzo(k)fluoranthene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Bis(2-chloroethoxy)methane	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Bis(2-Chloroethyl) ether	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Bis(2-Chloroisopropyl) ether	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Bis(2-Ethylhexyl) phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Butyl benzyl phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Chrysene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Di-n-butyl phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Di-n-octyl phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Dibenz(a,h)anthracene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Diethyl phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Dimethyl phthalate	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Fluoranthrene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Fluorene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Hexachlorobenzene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Hexachlorobutadiene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Hexachlorocyclopentadiene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Hexachloroethane	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Indeno(1,2,3-cd)pyrene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh

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Amy L. Morriss - City of Reading WWTP

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Richard Wolfe
Technical Director

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Reading PA 19601

Date of Report: 07/24/12
Lab ID: 0124-12-0027131
Date Collected: 07/03/12 08:19
Collected By: Client
Date Received: 07/06/12 16:45

Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Isophorone	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Library Search, Semivolatiles	see comment	mg/kg	5	EPA 625	07/13	10:40	twh
N-Nitrosodi-n-propylamine	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
N-Nitrosodimethylamine	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
N-Nitrosodiphenylamine	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Naphthalene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Nitrobenzene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Phenanthrene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
Pyrene	<25.5	* mg/kg	25.5	SW846 8270	07/13	10:40	twh
EXTRACTION							
SW846 8081 Extraction	complete	mg/kg	1	SW846 8081	07/13	09:00	twh
SW846 8082 Extraction	complete	ug/kg	1	SW846 8082	07/13	09:00	jl v
SW846 8270 Extraction	complete	ug/L	1	SW846 8270	07/11	07:00	jl v
PCBS							
PCB-1016	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1221	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1232	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1242	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1248	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1254	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PCB-1260	<5.10	* mg/kg	5.10	SW846 8082	07/20	09:09	twh
PESTICIDES							
4,4'-DDD	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
4,4'-DDE	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
4,4'-DDT	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Aldrin	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
alpha-BHC	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
beta-BHC	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Chlordane	<25.5	* mg/kg	25.5	SW846 8081	07/20	09:09	twh

Distribution of Report:
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Date of Report: 07/24/12
Lab ID: 0124-12-0027131

Date Collected: 07/03/12 08:19
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Date Received: 07/06/12 16:45

Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
delta-BHC	<25.5	* mg/kg	25.5	SW846 8081	07/20	09:09	twh
Dieldrin	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Endosulfan I	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Endosulfan II	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Endosulfan sulfate	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Endrin	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Endrin aldehyde	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Heptachlor	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Heptachlor Epoxide	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Lindane (Gamma BHC)	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
Toxaphene	<5.10	* mg/kg	5.10	SW846 8081	07/20	09:09	twh
VOLATILES							
1,1,1-Trichloroethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,1,2,2-Tetrachloroethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,1,2-Trichloroethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,1-Dichloroethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,1-Dichloroethylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,2-Dichloroethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
1,2-Dichloropropane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
2-Chloroethylvinyl Ether	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Acrolein	<1280	* ug/kg	1280	SW846 8260	07/13	10:47	gxf
Acrylonitrile	<1280	* ug/kg	1280	SW846 8260	07/13	10:47	gxf
Benzene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Bromoform (Tribromomethane)	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Bromomethane (Methyl Bromide)	<255	* ug/kg	255	SW846 8260	07/13	10:47	gxf
Carbon Tetrachloride	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Chlorobenzene (Monochlorobenzene)	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Chlorodibromomethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Chloroethane	<255	* ug/kg	255	SW846 8260	07/13	10:47	gxf

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Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Chloroform	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Chloromethane (Methyl Chloride)	<255	* ug/kg	255	SW846 8260	07/13	10:47	gxf
cis-1,3-Dichloropropylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Dichlorobromomethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Ethylbenzene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Library Search, Volatiles	see comment	ug/kg	30	SW846 8260	07/13	10:47	gxf
Methylene Chloride	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Tetrachloroethylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Toluene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
trans-1,2-Dichloroethylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
trans-1,3-Dichloropropylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Trichloroethylene	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Trichlorofluoromethane	<128	* ug/kg	128	SW846 8260	07/13	10:47	gxf
Vinyl Chloride	<255	* ug/kg	255	SW846 8260	07/13	10:47	gxf

COMMENTS:

- 1 - For SW846 8081 the CCV had multiple high recoveries, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.
- 2 - For SW846 8081/8082 the sample had a high surrogate recovery.
- 3 - One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 4 - For SW846 8270 the library search tentatively identified cholestan-3-ol and cholestan-3-one in the sample.
- 5 - For SW846 8270 the QC, sample and sample duplicate had high surrogate recoveries.

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Sample Description: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

* Results Expressed as Dry Weight

Results	Unit	Detection Limit	Test Procedure	Test Date	Test Time	Analyst
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- 6 - The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 7 - The VOC library search tentatively identified 2-Butanone, Acetone, Naphthalene, p-Isopropyltoluene, Trimethylamine, and 5 unknown hydrocarbon compounds.
- 8 - For the sw846 8260 procedure; the matrix spike performed on the sample was low for 1,2,4-Trimethylbenzene; Naphthalene; Cumene; and 1,3,5-Trimethylbenzene.

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Reading PA 19601

wet
weight

Date of Report: 07/24/12
Lab ID: 124-12-0027131

Date Collected: 07/03/12 08:19
Collected By: CLIENT


Sample Desc: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.4	mg/kg	.4	1	DEP 1	07/10	14:30	JCL
Cyanide, Total	1.0	mg/kg	.4	1	10204001X	07/10	14:30	JCL
Phenols (4AAP)	21.5	mg/kg	1	2	EPA 420.4	07/10	12:08	JCL
Phosphorus as P, Total	3560	mg/kg	125	25	SM 4500P-E	07/12	07:35	ALD
NITROGENS								
Nitrogen, Ammonia	2200	mg/kg	10	10	EPA 350.1	07/09	16:22	JCL
OTHER								
Biochemical Oxygen Demand	13300	mg/l	200	100	SM 5210B	07/09	16:00	EMW
PHYSICAL								
Visual Color	Dark Brown	color	1	1	VISUAL	07/18	16:25	ALD
RESIDUES								
Total Solids	19.6	%	.1	1	SM 2540G	07/11	09:20	RDD
INORGANIC								
TOTAL								
Antimony, Total	<5	mg/kg	5	1	SW846 6010	07/11	10:42	LNA
Arsenic, Total	0.4	mg/kg	.1	1	EPA 200.9	07/11	16:52	RLS
Beryllium, Total	<.5	mg/kg	.5	1	SW846 6010	07/11	10:42	LNA
Cadmium, Total	0.8	mg/kg	.5	1	SW846 6010	07/11	10:42	LNA
Chromium, Total	23.9	mg/kg	.5	1	SW846 6010	07/11	10:42	LNA
Copper, Total	111	mg/kg	1	1	SW846 6010	07/11	10:42	LNA
Lead, Total	30	mg/kg	1	1	SW846 6010	07/11	10:42	LNA
Mercury, Total	0.3	mg/kg	.2	1	SW846 7471	07/17	11:59	RLS
Molybdenum, Total	15	mg/kg	1	1	SW846 6010	07/11	10:42	LNA
Nickel, Total	8.1	mg/kg	.5	1	SW846 6010	07/11	10:42	LNA
Selenium, Total	1.1	mg/kg	.2	1	EPA 200.9	07/12	13:10	RLS
Silver, Total	1.8	mg/kg	.5	1	SW846 6010	07/10	14:40	LNA
Thallium, Total	<5	mg/kg	5	1	SW846 6010	07/11	10:42	LNA
Zinc, Total	342	mg/kg	.5	1	SW846 6010	07/11	10:42	LNA

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027131

Date Collected: 07/03/12 08:19
Collected By: CLIENT

Sample Desc: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	2215	mg/kg	250	1	EPA 1664	07/09	12:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	660	mg/kg	250	1	EPA 1664	07/10	09:30	WXC
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2,4-Dichlorophenol	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2,4-Dimethylphenol	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2,4-Dinitrophenol	<25	mg/kg	25	1	SW846 8270	07/13	10:40	TWH
2-Chlorophenol	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2-Nitrophenol	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
4,6-Dinitro-o-cresol	<25	mg/kg	25	1	SW846 8270	07/13	10:40	TWH
4-Chloro-3-methylphenol	<10	mg/kg	10	1	SW846 8270	07/13	10:40	TWH
4-Nitrophenol	<25	mg/kg	25	1	SW846 8270	07/13	10:40	TWH
Pentachlorophenol	<25	mg/kg	25	1	SW846 8270	07/13	10:40	TWH
Phenol	5.25	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
1,2-Diphenylhydrazine (as Azobenzene)	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
1,3-Dichlorobenzene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
1,4-Dichlorobenzene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2,3,7,8-Tetrachlorodibenzodioxin	see comment	mg/kg	2.5	1	SW846 8270	07/13	10:40	TWH
2,4-Dinitrotoluene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2,6-Dinitrotoluene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
2-Chloronaphthalene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
3,3'-Dichlorobenzidine	<10	mg/kg	10	1	SW846 8270	07/13	10:40	TWH
3,4-Benzofluoranthene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
4-Bromophenyl phenyl ether	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH

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Lab ID: 124-12-0027131

Date Collected: 07/03/12 08:19
Collected By: CLIENT

Sample Desc: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4-Chlorophenyl phenyl ether	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Acenaphthene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Acenaphthylene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Anthracene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Benzidine	<10	mg/kg	10	1	SW846 8270	07/13	10:40	TWH
Benzo(a)anthracene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Benzo(a)pyrene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Benzo(ghi)perylene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Benzo(k)fluoranthene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Bis(2-chloroethoxy)methane	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Bis(2-chloroethyl) ether	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Bis(2-chloroisopropyl) ether	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Bis(2-Ethylhexyl) phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Butyl benzyl phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Chrysene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Di-n-butyl phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Di-n-octyl phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Dibenz(a,h)anthracene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Diethyl phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Dimethyl phthalate	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Fluoranthrene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Fluorene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Hexachlorobenzene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Hexachlorobutadiene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Hexachlorocyclopentadiene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Hexachloroethane	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Indeno(1,2,3-cd)pyrene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Isophorone	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Library Search, Semivolatiles	see comment	mg/kg	5	1	EPA 625	07/13	10:40	TWH
N-Nitrosodi-n-propylamine	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH

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815 Washington St.
Reading PA 19601

Date of Report: 07/24/12
Lab ID: 124-12-0027131

Date Collected: 07/03/12 08:19
Collected By: CLIENT


Sample Desc: Belt Press Sludge 12-5978 (Quarterly & Priority Pollutants)

Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
N-Nitrosodimethylamine	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
N-Nitrosodiphenylamine	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Naphthalene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Nitrobenzene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Phenanthrene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
Pyrene	<5	mg/kg	5	1	SW846 8270	07/13	10:40	TWH
EXTRACTION								
SW846 8081 Extraction	complete	mg/kg	1	1	SW846 8081	07/13	09:00	TWH
SW846 8082 Extraction	complete	ug/kg	1	1	SW846 8082	07/13	09:00	JLV
SW846 8270 Extraction	complete	ug/L	1	1	SW846 8270	07/11	07:00	JLV
PCBS								
PCB-1016	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1221	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1232	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1242	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1248	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1254	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PCB-1260	<1	mg/kg	1	1	SW846 8082	07/20	09:09	TWH
PESTICIDES								
4,4'-DDD	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
4,4'-DDE	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
4,4'-DDT	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Aldrin	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
alpha-BHC	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
beta-BHC	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Chlordane	<5	mg/kg	5	1	SW846 8081	07/20	09:09	TWH
delta-BHC	<5	mg/kg	5	1	SW846 8081	07/20	09:09	TWH
Dieldrin	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Endosulfan I	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Endosulfan II	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH

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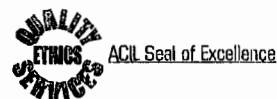
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Technical Director

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Collected By: CLIENT

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Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Endosulfan sulfate	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Endrin	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Endrin aldehyde	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Heptachlor	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Heptachlor Epoxide	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Lindane (Gamma BHC)	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
Toxaphene	<1	mg/kg	1	1	SW846 8081	07/20	09:09	TWH
VOLATILES								
1,1,1-Trichloroethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,1,2-Trichloroethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,1-Dichloroethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,1-Dichloroethylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,2-Dichloroethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
1,2-Dichloropropane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
2-Chloroethylvinyl Ether	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Acrolein	<250	ug/kg	250	1	SW846 8260	07/13	10:47	GXF
Acrylonitrile	<250	ug/kg	250	1	SW846 8260	07/13	10:47	GXF
Benzene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Bromoform (Tribromomethane)	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Bromomethane (Methyl Bromide)	<50	ug/kg	50	1	SW846 8260	07/13	10:47	GXF
Carbon Tetrachloride	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Chlorobenzene (Monochlorobenzene)	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Chlorodibromomethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Chloroethane	<50	ug/kg	50	1	SW846 8260	07/13	10:47	GXF
Chloroform	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Chloromethane (Methyl Chloride)	<50	ug/kg	50	1	SW846 8260	07/13	10:47	GXF
cis-1,3-Dichloropropylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Dichlorobromomethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Ethylbenzene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF

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Date Received: 07/06/12 16:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Library Search, Volatiles	see comment	ug/kg	30	1	SW846 8260	07/13	10:47	GXF
Methylene Chloride	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Tetrachloroethylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Toluene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
trans-1,2-Dichloroethylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
trans-1,3-Dichloropropylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Trichloroethylene	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Trichlorofluoromethane	<25	ug/kg	25	1	SW846 8260	07/13	10:47	GXF
Vinyl Chloride	<50	ug/kg	50	1	SW846 8260	07/13	10:47	GXF

COMMENTS

- 01 For SW846 8270 the QC, sample and sample duplicate had high surrogate recoveries.
- 02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

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Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
04 For SW846 8270 the library search tentatively identified cholestan-3-ol and cholestan-3-one in the sample.							

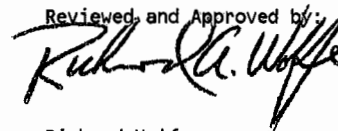
05 For the sw846 8260 procedure; the matrix spike performed on the sample was low for 1,2,4-Trimethylbenzene; Naphthalene; Cumene; and 1,3,5-Trimethylbenzene.

06 The VOC library search tentatively identified 2-Butanone, Acetone, Naphthalene, p-Isopropyltoluene, Trimethylamine, and 5 unknown hydrocarbon compounds.

07 For SW846 8081/8082 the sample had a high surrogate recovery.

08 For SW846 8081 the CCV had multiple high recoveries, and low 4,4'-DDT, Methoxychlor, and Toxaphene recoveries.

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815 Washington St.
Reading PA 19601

Date of Report: 09/27/12
Lab ID: 0124-12-0032797
Date Collected: 08/07/12 09:10
Collected By: Client
Date Received: 08/08/12 16:15

Sample Description: As Rec'd * Biosolids 12-7076 (Form 43)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Reactive	<120	* mg/kg	120	SW846 7.3	08/10	14:52	jcl
OTHER							
Paint Filter Liquids Test	NoFreeLiquids		0	SW846 9095	08/15	14:25	kle
PHYSICAL							
Corrosivity	Not Corrosive		0	SW846 7.2	08/14	08:35	ald
Ignitability	Not Ignitable		0	SW846 1030	08/15	15:07	kle
pH	8.22	su	2	SW846 9045	08/10	14:35	emw
Reactivity	Not Reactive		0	SW846 7.3	08/17	09:20	ald
RESIDUES							
Solids, Total Volatile	62.6	%	1	SM 2540G	08/14	15:10	rdd
Total Solids	20.9	%	1	SM 2540G	08/14	09:30	rdd
TITRATIONS							
Sulfide, Reactive	933	* mg/kg	239	SW846 7.3	08/10	17:28	whc
INORGANIC							
TOTAL							
Arsenic, Total	2	* mg/kg	0.5	EPA 200.9	08/10	15:12	rls
Barium, Total	348	* mg/kg	2.39	SW846 6010	08/09	12:48	lma
Cadmium, Total	4	* mg/kg	2	SW846 6010	08/09	12:48	lma
Chromium, Total	99.5	* mg/kg	2.39	SW846 6010	08/09	12:48	lma
Copper, Total	560	* mg/kg	4.78	SW846 6010	08/09	12:48	lma
Lead, Total	290	* mg/kg	4.8	SW846 6010	08/09	12:48	lma
Mercury, Total	1	* mg/kg	1	SW846 7471	08/15	15:38	jxs
Molybdenum, Total	76	* mg/kg	4.8	SW846 6010	08/09	12:48	lma
Nickel, Total	62.2	* mg/kg	2.39	SW846 6010	08/09	12:48	lma
Selenium, Total	5.3	* mg/kg	0.96	EPA 200.9	08/14	17:05	rls
Silver, Total	8.6	* mg/kg	2.4	SW846 6010	08/14	10:11	btg
Zinc, Total	1430	* mg/kg	2.39	SW846 6010	08/09	12:48	lma

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Amy L. Morriss - City of Reading WWTP

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 09/27/12
Lab ID: 0124-12-0032797
Date Collected: 08/07/12 09:10
Collected By: Client
Date Received: 08/08/12 16:15

Sample Description: As Rec'd * Biosolids 12-7076 (Form 43)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
O&G/TPH							
GENERAL							
Oil and Grease	12780	* mg/kg	1196	EPA 1664	08/14	06:15	wxc
Total Petroleum Hydrocarbons	4310	* mg/kg	23.9	EPA 1664	08/14	15:00	wxc
ORGANIC							
EXTRACTION							
SW846 8082 Extraction	Complete		0	SW846 8082	08/15	07:30	jlv
PCBS							
PCB-1016	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1221	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1232	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1242	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1248	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1254	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1260	<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh

COMMENTS:

- 1 - For SW846 8082 the CCV had high PCB recoveries, however PCBs were not detected in the sample above the laboratory reporting limit.
- 2 - For SW846 8082 the sample had a high surrogate recovery.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032797

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: As Rec'd * Biosolids 12-7076 (Form 43)

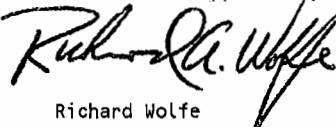
Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Reactive	<25	mg/kg	25	1	SW846 7.3	08/10	14:52	JCL
OTHER								
Paint Filter Liquids Test	NoFreeLiquids		0	0	SW846 9095	08/15	14:25	KLE
PHYSICAL								
Corrosivity	Not Corrosive		0	0	SW846 7.2	08/14	08:35	ALD
Ignitability	Not Ignitable		0	0	SW846 1030	08/15	15:07	KLE
pH	8.22	su	2	1	SW846 9045	08/10	14:35	EMW
Reactivity	Not Reactive		0	0	SW846 7.3	08/17	09:20	ALD
RESIDUES								
Solids, Total Volatile	62.6	%	1	1	SM 2540G	08/14	15:10	RDD
Total Solids	20.9	%	1	1	SM 2540G	08/14	09:30	RDD
TITRATIONS								
Sulfide, Reactive	195	mg/kg	50	1	SW846 7.3	08/10	17:28	WHC
INORGANIC								
TOTAL								
Arsenic, Total	0.4	mg/kg	.1	1	EPA 200.9	08/10	15:12	RLS
Barium, Total	72.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Cadmium, Total	0.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Chromium, Total	20.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Copper, Total	117	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Lead, Total	61	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Mercury, Total	0.3	mg/kg	.2	1	SW846 7471	08/15	15:38	JXS
Molybdenum, Total	16	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Nickel, Total	13.0	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Selenium, Total	1.1	mg/kg	.2	1	EPA 200.9	08/14	17:05	RLS
Silver, Total	1.8	mg/kg	.5	1	SW846 6010	08/14	10:11	BTG
Zinc, Total	299	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA

O&G/TPH

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Lab ID: 124-12-0032797

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: As Rec'd * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
GENERAL								
Oil and Grease	2670	mg/kg	250	1	EPA 1664	08/14	06:15	WXC
Total Petroleum Hydrocarbons	900	mg/kg	5	1	EPA 1664	08/14	15:00	WXC
ORGANIC								
EXTRACTION								
SW846 8082 Extraction	Complete		0	0	SW846 8082	08/15	07:30	JLV
PCBS								
PCB-1016	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1221	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1232	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1242	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1248	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1254	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1260	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH

COMMENTS

01 For SW846 8082 the CCV had high PCB recoveries, however PCBs were not detected in the sample above the laboratory reporting limit.

02 For SW846 8082 the sample had a high surrogate recovery.

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Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

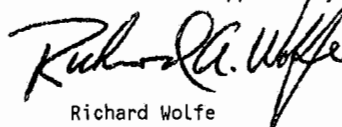
Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.98	su	1	1	SW846 9040	08/10	08:00	JXS
pH, Leachate	5.84	su	1	1	SW846 9040	08/10	08:00	JXS
INORGANIC								
EXTRACTION								
TCLP Preparation	Complete		0	0	EPA 1311	08/10	08:00	JXS
TCLP								
Arsenic, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Barium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Cadmium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Chromium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Iron, TCLP	<.2	mg/L	.2	1	SW846 6010	08/16	09:14	BTG
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	08/14	13:46	BTG
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	08/15	15:38	JXS
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	08/14	13:46	BTG
Nickel, TCLP	0.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Selenium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Silver, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	10:11	BTG
Zinc, TCLP	0.31	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Cresols, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Pentachlorophenol, TCLP	<250	ug/L	250	1	SW846 8270	08/20	20:18	TWH
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Hexachlorobenzene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH

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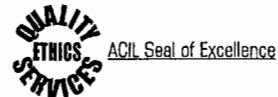

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Technical Director

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Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/l	50	1	SW846 8270	08/20	20:18	TWH
Hexachloroethane, TCLP	<50	ug/l	50	1	SW846 8270	08/20	20:18	TWH
Nitrobenzene, TCLP	<50	ug/l	50	1	SW846 8270	08/20	20:18	TWH
Pyridine, TCLP	<50	ug/l	50	1	SW846 8270	08/20	20:18	TWH
EXTRACTION								
SM 6640B Extraction	complete	ug/kg	1	1	SM 6640B	08/17	07:00	JLV
SW846 8081 Extraction	Complete		0	0	SW846 8081	08/13	07:00	JLV
SW846 8270 Extraction	complete	ug/l	1	1	SW846 8270	08/16	07:00	MCM
HERBICIDES								
2,4,5-TP Silvex, TCLP	<1	ug/l	1	1	SM 6640B	08/17	19:58	TWH
2,4-D, TCLP	<1	ug/l	1	1	SM 6640B	08/17	19:58	TWH
PESTICIDES								
Chlordane, TCLP	<5	ug/l	5	1	SW846 8081	08/15	23:37	TWH
Endrin, TCLP	<.5	ug/l	.5	1	SW846 8081	08/15	23:37	TWH
Heptachlor (and hydroxide), TCLP	<.5	ug/l	.5	1	SW846 8081	08/15	23:37	TWH
Heptachlor Epoxide, TCLP	<.5	ug/l	.5	1	SW846 8081	08/15	23:37	TWH
Lindane, TCLP	<.5	ug/l	.5	1	SW846 8081	08/15	23:37	TWH
Methoxychlor, TCLP	<.5	ug/l	.5	1	SW846 8081	08/15	23:37	TWH
Toxaphene, TCLP	<10	ug/l	10	1	SW846 8081	08/15	23:37	TWH
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Benzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Chlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Chloroform, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/l	200	1	SW846 8260	08/16	09:08	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF

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Richard Wolfe
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Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/16	09:08	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/l	100	1	SW846 8260	08/16	09:08	GXF

COMMENTS

01 For SW846 8081 the CCV had a low Methoxychlor recovery.

02 For SM 6640B the sample and duplicate had low surrogate recoveries.

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815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032799

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: ASTM * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	68	mg/l	2	20	D6919-03	08/13	20:25	JCL
OTHER								
Chemical Oxygen Demand	238	mg/l	25	1	HACH8000	08/14	06:50	ALD
PHYSICAL								
pH	8.04	su	1	1	SM4500H-B	08/10	16:40	EMW
RESIDUES								
Solids, Total	380	mg/l	1	1	SM 2540B	08/14	17:05	RDD
INORGANIC								
EXTRACTION								
ASTM Preparation	Complete		0	0	ASTM	08/10	08:00	JXS
PG/TPH								
GENERAL								
Oil and Grease	<10	mg/l	10	1	EPA 1664	08/13	06:30	WXC
Total Petroleum Hydrocarbons	<10	mg/kg	10	1	EPA 1664	08/14	07:45	WXC

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4th QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045359

Date Collected: 10/24/12 09:04
Collected By: CLIENT

Sample Desc: Raw 12-9609 (Composite, Quarterly) *Influent*

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	8.1	mg/L	.5	10	SM 4500P-E	10/29	12:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/31	20:10	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Chromium, Total	0.012	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Copper, Total	0.056	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Lead, Total	0.01	mg/L	.01	1	EPA 200.7	11/05	10:13	LNA
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	11/06	10:25	JXS
Molybdenum, Total	0.07	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Nickel, Total	0.008	mg/L	.005	1	EPA 200.7	11/05	10:13	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	11/06	11:31	LNA
Zinc, Total	0.194	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5	ug/L	5	1	EPA 625	11/02	23:49	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/31	08:00	MCM

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815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045364

Date Collected: 10/25/12 09:01
Collected By: CLIENT

Sample Desc: Raw 12-9621 (Grab, Quarterly) *Influent*

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/31	14:36	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	10/31	14:36	JCL
Phenols (4AAP)	0.123	mg/L	.01	1	EPA 420.4	11/01	15:01	JCL
O&G/TPH								
GENERAL								
Oil and Grease	9	mg/L	5	1	EPA 1664	10/29	11:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/31	06:30	WXC

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CERTIFICATE OF ANALYSIS

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4th Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045363

Date Collected: 10/24/12 08:03
Collected By: CLIENT

Sample Desc: Final 12-9602 (Composite, Quarterly) *Effluent*

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.9	mg/L	.5	10	SM 4500P-E	10/29	12:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/31	20:10	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Chromium, Total	0.007	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Copper, Total	0.020	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	11/05	10:13	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	11/06	10:25	JXS
Molybdenum, Total	0.05	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Nickel, Total	0.008	mg/L	.005	1	EPA 200.7	11/05	10:13	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	11/06	11:31	LNA
Zinc, Total	0.086	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5	ug/L	5	1	EPA 625	11/02	23:49	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/31	08:00	MCM

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Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045362

Date Collected: 10/25/12 07:58
Collected By: CLIENT

Sample Desc: Final 12-9601 (Grab, Quarterly)

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.006	mg/L	.004	1	DEP 1	10/31	14:36	JCL
Cyanide, Total	0.012	mg/L	.004	1	10204001X	10/31	14:36	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	11/01	15:01	JCL
O&G/TPH								
GENERAL								
Oil and Grease	<5	mg/L	5	1	EPA 1664	10/29	11:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/29	11:00	WXC

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4th QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045360

Date Collected: 10/24/12 09:32
Collected By: CLIENT

Sample Desc: 6th 12-9626 (Composite, Quarterly)

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.9	mg/L	.5	10	SM 4500P-E	10/29	12:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	0.001	mg/L	.001	1	EPA 200.9	10/31	20:10	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Chromium, Total	0.024	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Copper, Total	0.098	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	11/05	10:13	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	11/06	10:25	JXS
Molybdenum, Total	0.08	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Nickel, Total	0.015	mg/L	.005	1	EPA 200.7	11/05	10:13	LNA
Silver, Total	0.005	mg/L	.005	1	EPA 200.7	11/06	11:31	LNA
Zinc, Total	0.348	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	10	ug/L	5	1	EPA 625	11/02	23:49	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/31	08:00	MCM

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045361

Date Collected: 10/25/12 09:35
Collected By: CLIENT

Sample Desc: 6th 12-9628 (Grab, Quarterly)

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/31	14:36	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	10/31	14:36	JCL
Phenols (4AAP)	0.101	mg/L	.01	1	EPA 420.4	11/01	15:01	JCL
O&G/TPH								
GENERAL								
Oil and Grease	20	mg/L	5	1	EPA 1664	10/29	11:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/31	06:30	WXC

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4THQTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045358

Date Collected: 10/24/12 09:15
Collected By: CLIENT


Sample Desc: GC 12-9623 (Composite, Quarterly) GRIT

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.7	mg/L	.5	10	SM 4500P-E	10/29	12:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/31	20:10	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Chromium, Total	0.007	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
Copper, Total	0.087	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	11/05	10:13	LNA
Mercury, Total	0.0003	mg/L	.0001	1	EPA 245.1	11/06	10:25	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.7	10/29	11:35	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	11/05	10:13	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	11/06	11:31	LNA
Zinc, Total	0.229	mg/L	.005	1	EPA 200.7	10/29	11:35	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	10	ug/L	5	1	EPA 625	11/02	23:49	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/31	08:00	MCM

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/07/12
Lab ID: 124-12-0045357

Date Collected: 10/25/12 09:17
Collected By: CLIENT

Sample Desc: GC 12-9625 (Grab, Quarterly) *Grit*

Date Received: 10/26/12 15:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/31	14:36	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	10/31	14:36	JCL
Phenols (4AAP)	0.102	mg/L	.01	1	EPA 420.4	11/01	15:01	JCL
O&G/TPH								
GENERAL								
Oil and Grease	12	mg/L	5	1	EPA 1664	10/29	11:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/31	06:30	WXC

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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/03/12
Lab ID: 0124-12-0046735
Date Collected: 11/06/12 08:40
Collected By: Client
Date Received: 11/07/12 15:55

Sample Description: 12-10018, Belt Press Sludge (Composite, Quarterly)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	2	* mg/kg	2	DEP 1	11/12	15:21	jcl
Cyanide, Total	5.8	* mg/kg	2.1	10204001X	11/12	15:21	jcl
Phenols (4AAP)	29	* mg/kg	5.3	EPA 420.4	11/14	15:53	jcl
Phosphorus as P, Total	4.7	* mg/kg	0.26	SM 4500P-E	11/09	07:42	ald
PHYSICAL							
Visual Color	Dark Brown	color	1	VISUAL	11/28	13:00	jxs
RESIDUES							
Total Solids	18.8	%	1	SM 2540G	11/08	17:00	rdd
INORGANIC							
TOTAL							
Chromium, Total	118	* mg/kg	2.66	SW846 6010	11/08	10:08	lna
Silver, Total	10	* mg/kg	2.6	SW846 6010	11/14	12:28	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	22630	* mg/kg	1330	EPA 1664	11/12	05:30	wxc
Silica Gel Treated N-Hexane Extract(TPH)	6649	* mg/kg	1330	EPA 1664	11/12	12:30	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<10.6	* mg/kg	10.6	SW846 8270	11/16	14:12	meh
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	11/14	08:00	jlv

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**2012 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND
PLANT EFFLUENT**

MONTHLY FECAL COLIFORM TESTING FOR BIOSOLIDS

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 1/3/12 AND 8/7/12

Mercury Testing for 2012 at Plant Influent Points and Plant Effluent

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
01/03/12		0.0003	<	0.0001		0.0002	<	0.0001
01/10/12	<	0.0001		0.0001		0.0002	<	0.0001
01/17/12	<	0.0001		0.0001		0.0001	<	0.0001
1/18/2012	<	0.0001	<	0.0001		0.0001	<	0.0001
1/24/2012	<	0.0001	<	0.0001		0.0002	<	0.0001
1/31/2012	<	0.0001		0.0001		0.0002	<	0.0001
2/7/2012	<	0.0001		0.0001		0.0002	<	0.0001
2/14/2012		0.0001		0.0001		0.0001	<	0.0001
2/15/2012	<	0.0001		0.0001		0.0003	<	0.0001
2/21/2012		0.0002	<	0.0001		0.0003	<	0.0001
2/28/2012	<	0.0001		0.0002		0.0001	<	0.0001
3/3/2012		0.0003	<	0.0001		0.0002	<	0.0001
3/5/2012		0.0002	<	0.0001		0.0002	<	0.0001
3/6/2012		0.0001		0.0002		0.0002	<	0.0001
3/13/2012		0.0002		0.0001		0.0002	<	0.0001
3/20/2012		0.0007		0.0001		0.0002	<	0.0001
3/27/2012	<	0.0001	<	0.0001		0.0001	<	0.0001
4/3/2012		0.0002		0.0006		0.0002	<	0.0001
4/4/2012	<	0.0001	<	0.0001		0.0003	<	0.0001
4/10/2012		0.0002	<	0.0001		0.0003	<	0.0001
4/17/2012		0.0004		0.0002		0.001	<	0.0001
4/24/2012		0.0002	<	0.0001		0.0001	<	0.0001
5/1/2012		0.0003		0.0006		0.0003	<	0.0001
5/8/2012		0.0005	<	0.0001	<	0.0001	<	0.0001
5/10/2012	<	0.0001		0.0003		0.0011	<	0.0001
5/15/2012	<	0.0001	<	0.0001		0.0003	<	0.0001
5/22/2012	<	0.0001		0.0002		0.0004	<	0.0001
5/29/2012	<	0.0001	<	0.0001		0.0002	<	0.0001
6/5/2012	<	0.0001		0.0001		0.0002	<	0.0001
6/7/2012		0.0001		0.0006		0.0002	<	0.0001
6/12/2012	<	0.0001		0.0001	<	0.0001	<	0.0001
6/19/2012	<	0.0001	<	0.0001		0.0003	<	0.0001
6/27/2012	<	0.0001	<	0.0001	<	0.0001	<	0.0001
7/3/2012	<	0.0001	<	0.0001	<	0.0001	<	0.0001
7/9/2012		0.0001		0.0001		0.0001	<	0.0001
7/10/2012		0.0002	<	0.0001		0.0001	<	0.0001
7/17/2012	<	0.0001		0.0001		0.0002	<	0.0001
7/24/2012		0.0001		0.0001		0.0002	<	0.0001
7/31/2012	<	0.0001		0.0001		0.0001	<	0.0001
8/7/2012		0.0002		0.0001		0.0003	<	0.0001
8/13/2012	<	0.0001	<	0.0001	<	0.0001	<	0.0001
8/14/2012		0.0001	<	0.0001	<	0.0001	<	0.0001
8/21/2012		0.0001	<	0.0001		0.0001	<	0.0001
8/28/2012		0.0002		0.0003		0.0001	<	0.0001

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
9/4/2012		0.0004		0.0001		0.0002	<	0.0001
9/10/2012		0.0001	<	0.0001		0.0002	<	0.0001
9/11/2012	<	0.0001		0.0001		0.0003	<	0.0001
9/18/2012		0.0002		0.0002		0.0004	<	0.0001
9/25/2012	<	0.0001		0.0001	<	0.0001	<	0.0001
10/2/2012		0.0004	<	0.0001	<	0.0001	<	0.0001
10/4/2012	<	0.0001	<	0.0001	<	0.0001	<	0.0001
10/9/2012		0.0002	<	0.0001	<	0.0001	<	0.0001
10/16/2012		0.0001	<	0.0001	<	0.0001	<	0.0001
10/24/2012		0.0003	<	0.0001		0.0001	<	0.0001
10/30/2012	<	0.0001	<	0.0001	<	0.0001	<	0.0001
11/6/2012	<	0.0001		0.0002	<	0.0001	<	0.0001
11/8/2012	<	0.0001		0.0013		0.0002	<	0.0001
11/13/2012	<	0.0001		0.0001		0.0001	<	0.0001
11/20/2012	<	0.0001		0.0002	<	0.0001	<	0.0001
11/27/2012	<	0.0001		0.0002	<	0.0001	<	0.0001
12/4/2012	<	0.0001		0.0002	<	0.0001	<	0.0001
12/5/2012	<	0.0001		0.0013		0.0002	<	0.0001
12/11/2012	<	0.0001		0.0001		0.0001	<	0.0001
12/18/2012	<	0.0001		0.0002	<	0.0001	<	0.0001
12/25/2012	<	0.0001		0.0002	<	0.0001	<	0.0001



Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15088 Date Received: January 11, 2012 Date Sampled: 1/3/12 Report Date: 1/31/12 Sample type: Composite County: Berks Customer Sample ID: 12-107 Belt Press Sludge
--	--

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.2 C	— % —					% (dry weight basis)						
8.1	18.53	63.53	5.81	4.83	0.98	2.05	0.38	0.38	7.34	0.09	1.22	0.89
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1024.1	3.38	4.16	96.6	534.5	116.8	2.49	41.0	53.0	4.16	1448.9	< .15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1294 gallons of wet material or 5.4 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	5.81	0.86 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.69	2.44 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.46	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	1/20/2012	11:14:59
As	3050B + 6010	Brooks	1/20/2012	11:14:59
Se	3050B + 6010	Brooks	1/20/2012	11:14:59
Hg	7473	Brooks	1/20/2012	1:24:21 PM
PCB1	8082			

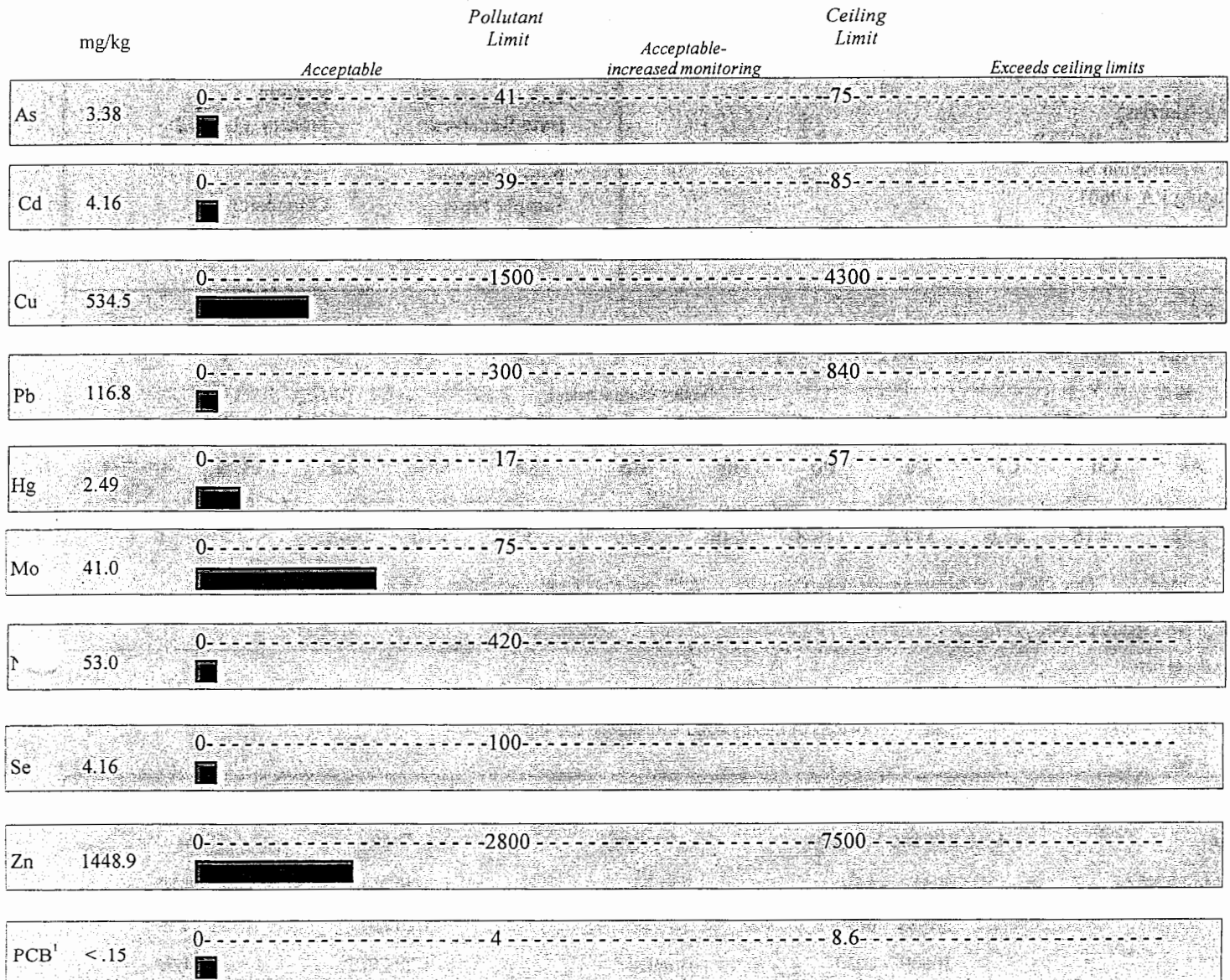
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.933	1.933	1.933	0.392	1.933	1.933	1.933	1.933	1.933
Analyte conc. in sample/ digest (mg/L except Hg)	0.024	0.030	3.83	0.181 ug	0.29	0.38	0.84	0.03	10.38
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p> <p style="text-align: center;">RECEIVED MAR 05 2012 DEPT. OF PUBLIC WORKS</p>	<p>Lab Sample ID: E15156 Date Received: February 13, 2012 Date Sampled: 2/7/12 Report Date: 2/27/12 Sample type: Composite County: Berks Customer Sample ID: 12-1218 Belt press sludge</p>
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.7 C	— % —											
8.0	17.32	67.28	5.76	4.86	0.90	2.33	0.14	0.45	5.88	0.11	1.18	0.98
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
1218.7	3.57	4.80	122.3	615.5	174.0	2.28	61.8	67.9	6.03	1789.0	< .94	< 1

NR-Not Requested One dry ton of this material is equivalent to 1385 gallons of wet material or 5.8 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

N	5.76	0.87	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	5.34	2.14	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.16		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	2/17/2012	9:57:43
As	3050B + 6010	Brooks	2/17/2012	9:57:43
Se	3050B + 6010	Brooks	2/17/2012	9:57:43
Hg	7473	Brooks	2/16/2012	2:43:47 PM
PCB1	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

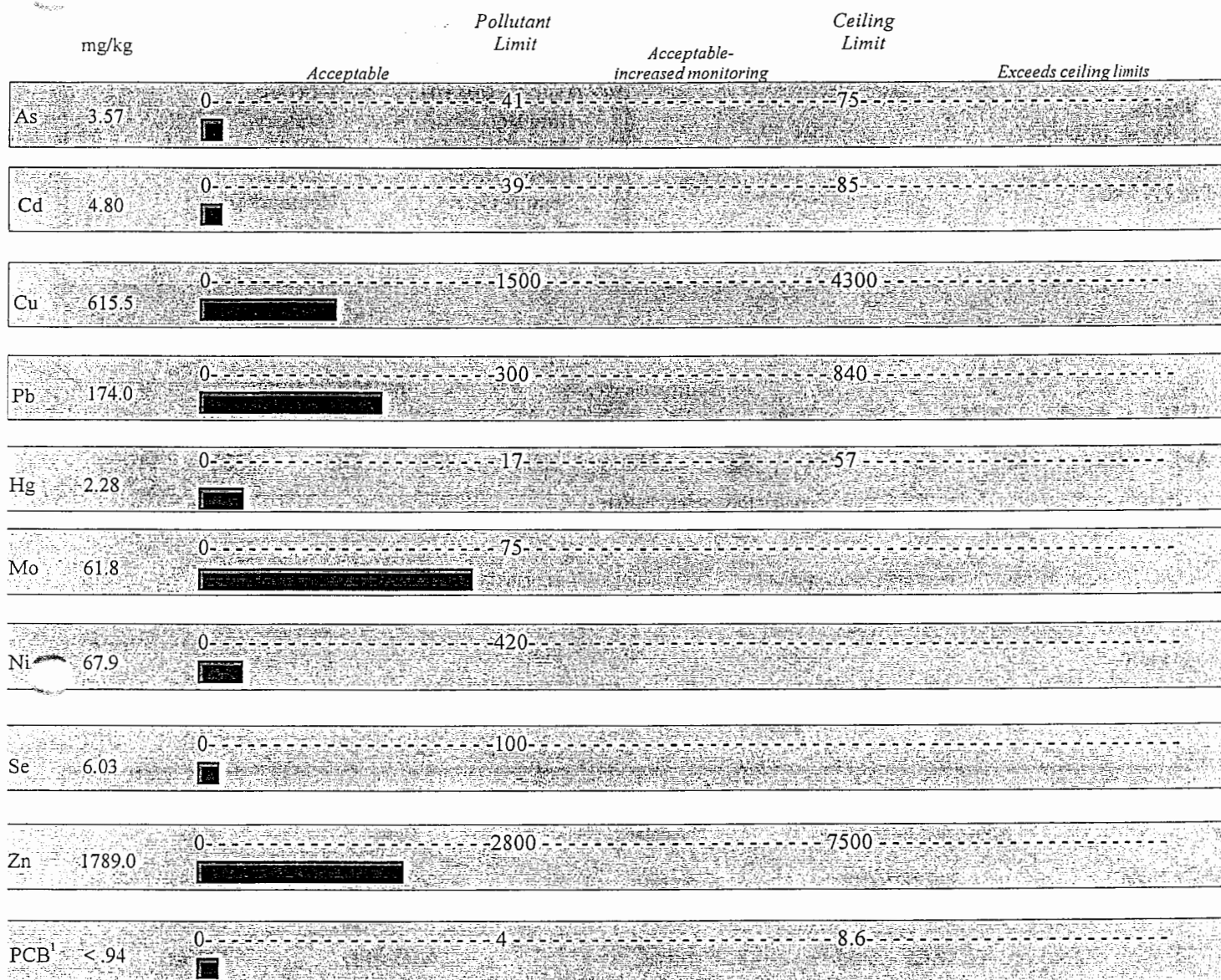
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.768	1.768	1.768	0.376	1.768	1.768	1.768	1.768	1.768
Analyte conc. in sample/ digest (mg/L except Hg)	0.022	0.029	3.77	0.149 ug	0.38	0.42	1.07	0.04	10.96
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

N ₂ -N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15202 Date Received: March 9, 2012 Date Sampled: 3/6/12 Report Date: 3/27/12 Sample type: Grab County: Berks Customer Sample ID: 12-2111 Belt Press Sample
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.5 C	— % —					% (dry weight basis)						
8.1	18.67	65.53	5.41	4.41	1.00	2.28	0.13	0.44	6.09	0.12	1.28	0.96
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1249.8	4.2	5.22	135.2	656.0	158.7	1.97	69.9	66.3	7.13	1738.0	< .14	< 1

NR-Not Requested One dry ton of this material is equivalent to 1285 gallons of wet material or 5.4 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N	5.41	0.92	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	5.23	2.19	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.15		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	3/19/2012	10:32:46
As	3050B + 6010	Brooks	3/19/2012	10:32:46
Se	3050B + 6010	Brooks	3/19/2012	10:32:46
Hg	7473	Rishel	3/16/2012	10:12:43 AM
PCB1	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

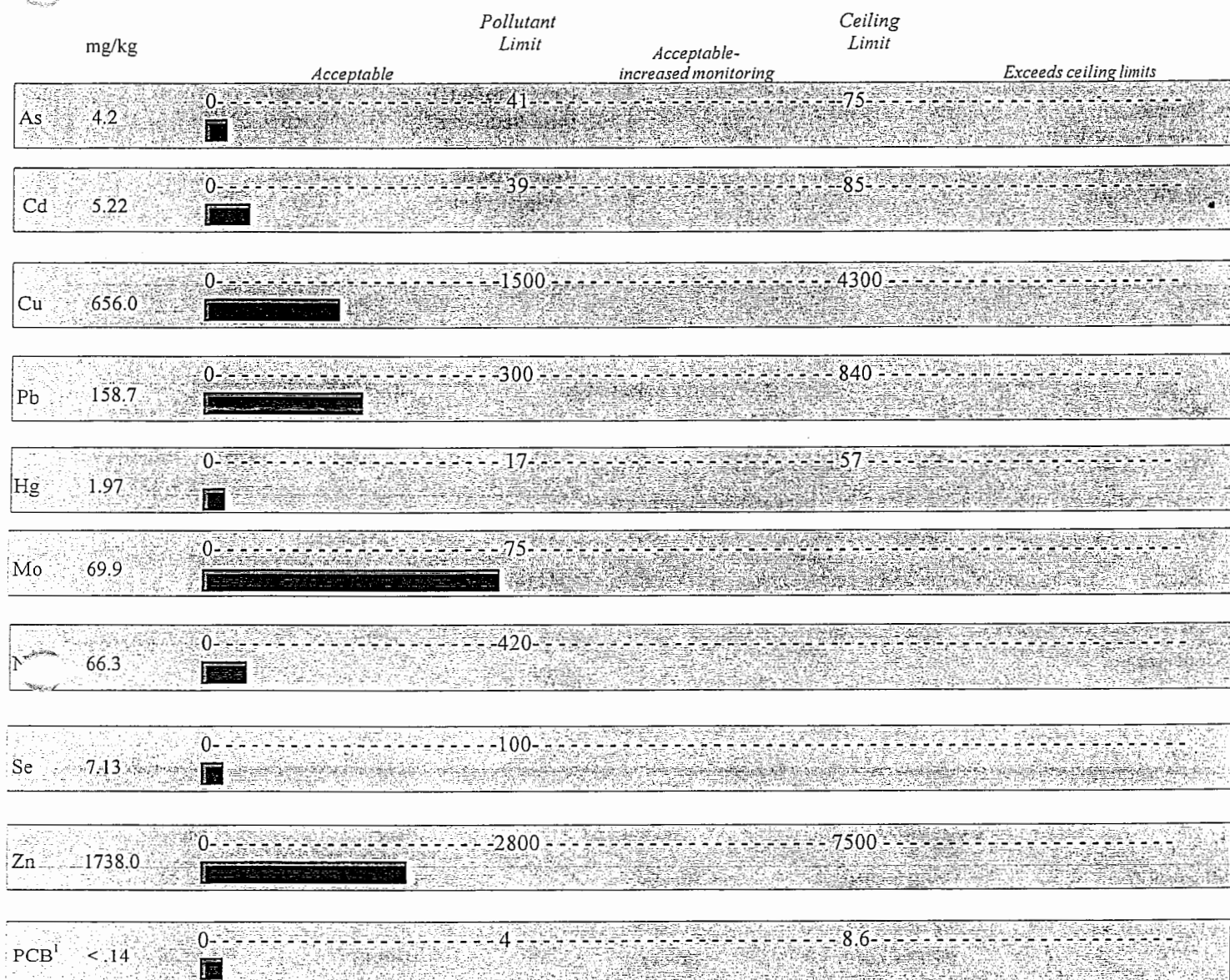
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.719	1.719	1.719	0.261	1.719	1.719	1.719	1.719	1.719
Analyte conc. in sample/ digest (mg/L except Hg)	0.027	0.034	4.21	0.096 ug	0.45	0.43	1.02	0.05	11.15
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

Rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15242 Date Received: April 5, 2012 Date Sampled: 4/3/12 Report Date: 4/19/12 Sample type: Composite County: Berks Customer Sample ID: 12-3004
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.2 C	— % —					% (dry weight basis)						
8.1	18.61	67.13	5.61	4.58	1.04	2.13	0.10	0.41	9.32	0.12	1.06	0.86
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1239.6	3.83	4.67	125.1	557.4	133.9	2.49	76.1	60.9	6.23	1754.5	< .15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1289 gallons of wet material or 5.4 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

al N	5.61	0.89	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.87	2.35	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.12		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	4/13/2012	10:50:44
As	3050B + 6010	Brooks	4/13/2012	10:50:44
Se	3050B + 6010	Brooks	4/13/2012	10:50:44
Hg	7473	Brooks	4/17/2012	12:28:23 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

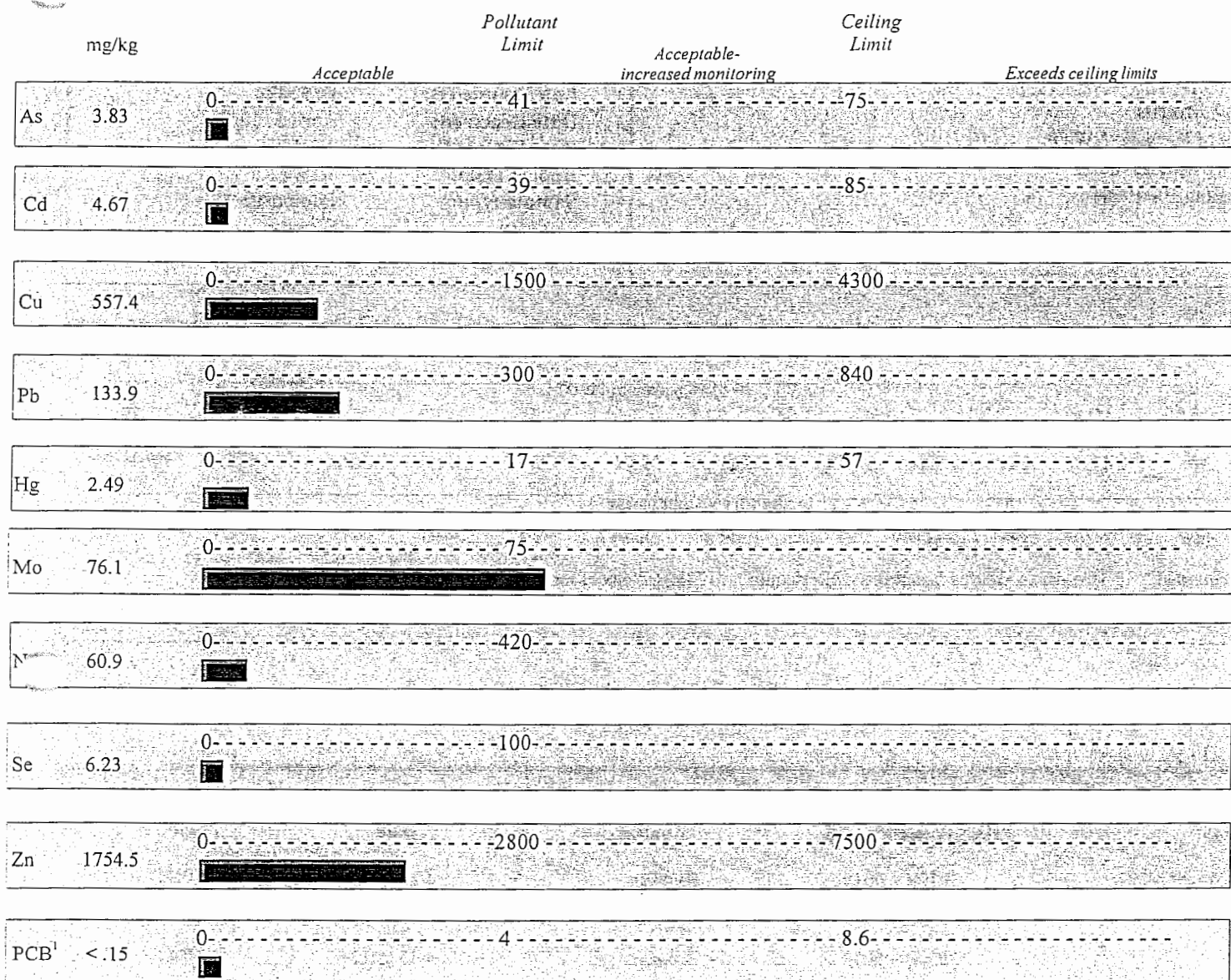
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.339	2.339	2.339	0.361	2.339	2.339	2.339	2.339	2.339
Analyte conc. in sample/digest (mg/L except Hg)	0.033	0.041	4.85	0.167 ug	0.66	0.53	1.17	0.05	15.27
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

N ₂ O ₅ -N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature
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EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15286 Date Received: May 4, 2012 Date Sampled: 5/1/12 Report Date: 5/18/12 Sample type: Composite County: Berks Customer Sample ID: 12-3891 Belt Press Sludge
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.4 C	— % —					% (dry weight basis)						
8.0	23.64	52.31	3.81	2.87	0.94	1.60	0.10	0.32	12.42	0.12	1.55	0.65
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1015.6	3.66	2.95	121.5	466.7	221.6	3.61	70.5	80.1	4.16	1100.8	<.11	< 1

NR-Not Requested One dry ton of this material is equivalent to 1015 gallons of wet material or 4.2 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	3.81	1.31 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	3.67	3.12 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.12	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	5/14/2012	12:10:04
As	3050B + 6010	Brooks	5/14/2012	12:10:04
Se	3050B + 6010	Brooks	5/14/2012	12:10:04
Hg	7473	Brooks	5/17/2012	10:39:18 AM
PCB ¹	8082			

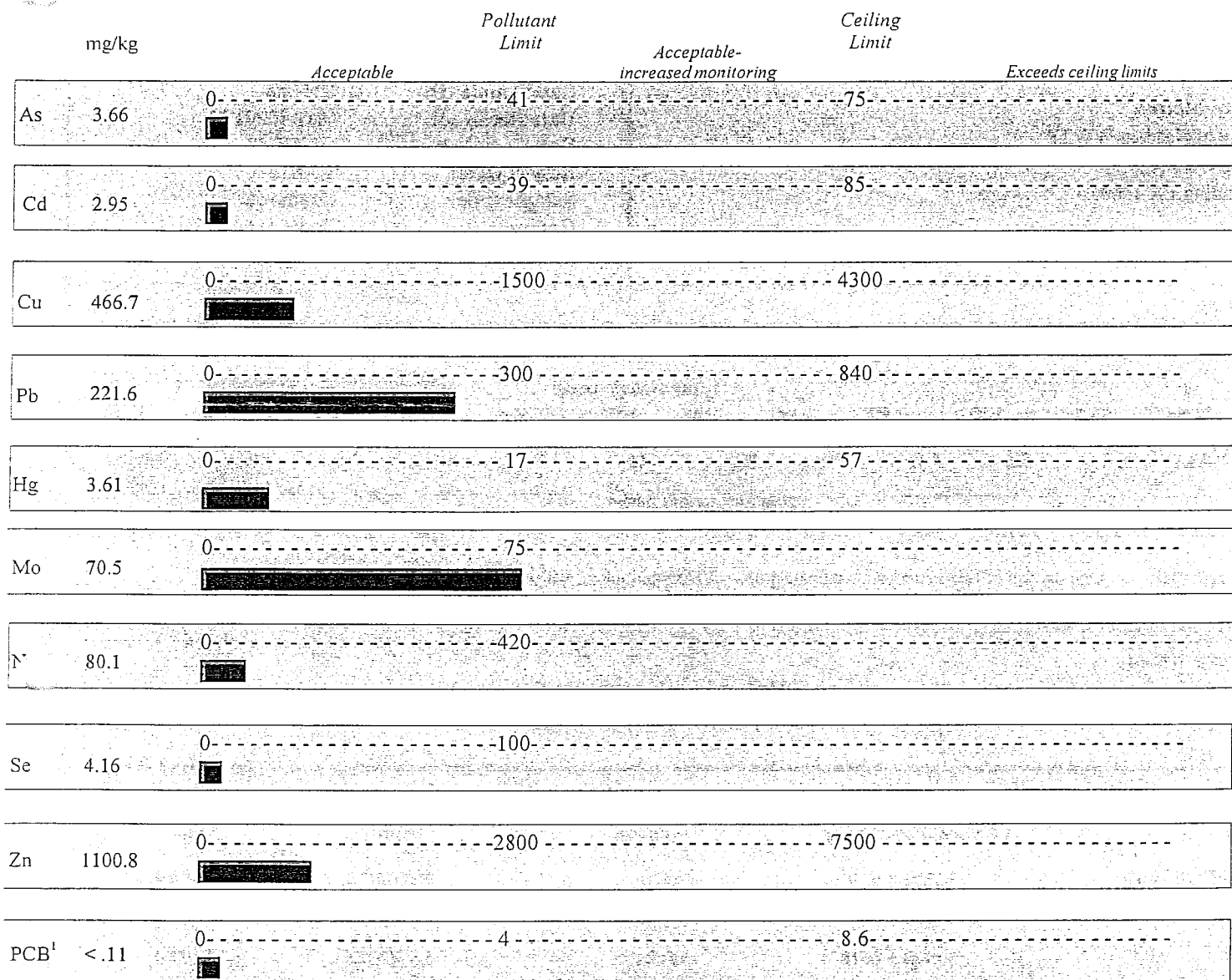
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.922	1.922	1.922	0.347	1.922	1.922	1.922	1.922	1.922
Analyte conc. in sample/ digest (mg/L except Hg)	0.033	0.027	4.24	0.296 ug	0.64	0.73	2.01	0.04	10.00
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
1. Total N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15336 Date Received: June 8, 2012 Date Sampled: 6/5/12 Report Date: 6/26/12 Sample type: Composite County: Berks Customer Sample ID: 12-5034 Belt Press Sludge
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.6 C	— % —					% (dry weight basis)						
8.0	17.84	66.60	5.92	4.75	1.17	1.87	0.10	0.42	6.04	0.10	1.25	0.78
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1489.1	4.46	3.33	124.1	532.4	183.6	2.66	75.7	58.1	5.97	1536.5	< .15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1344 gallons of wet material or 5.6 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	5.92	0.84 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.27	2.68 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.12	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	6/18/2012	11:23:12
As	3050B + 6010	Brooks	6/18/2012	11:23:12
Se	3050B + 6010	Brooks	6/18/2012	11:23:12
Hg	7473	Rishel	6/14/2012	12:47:11 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

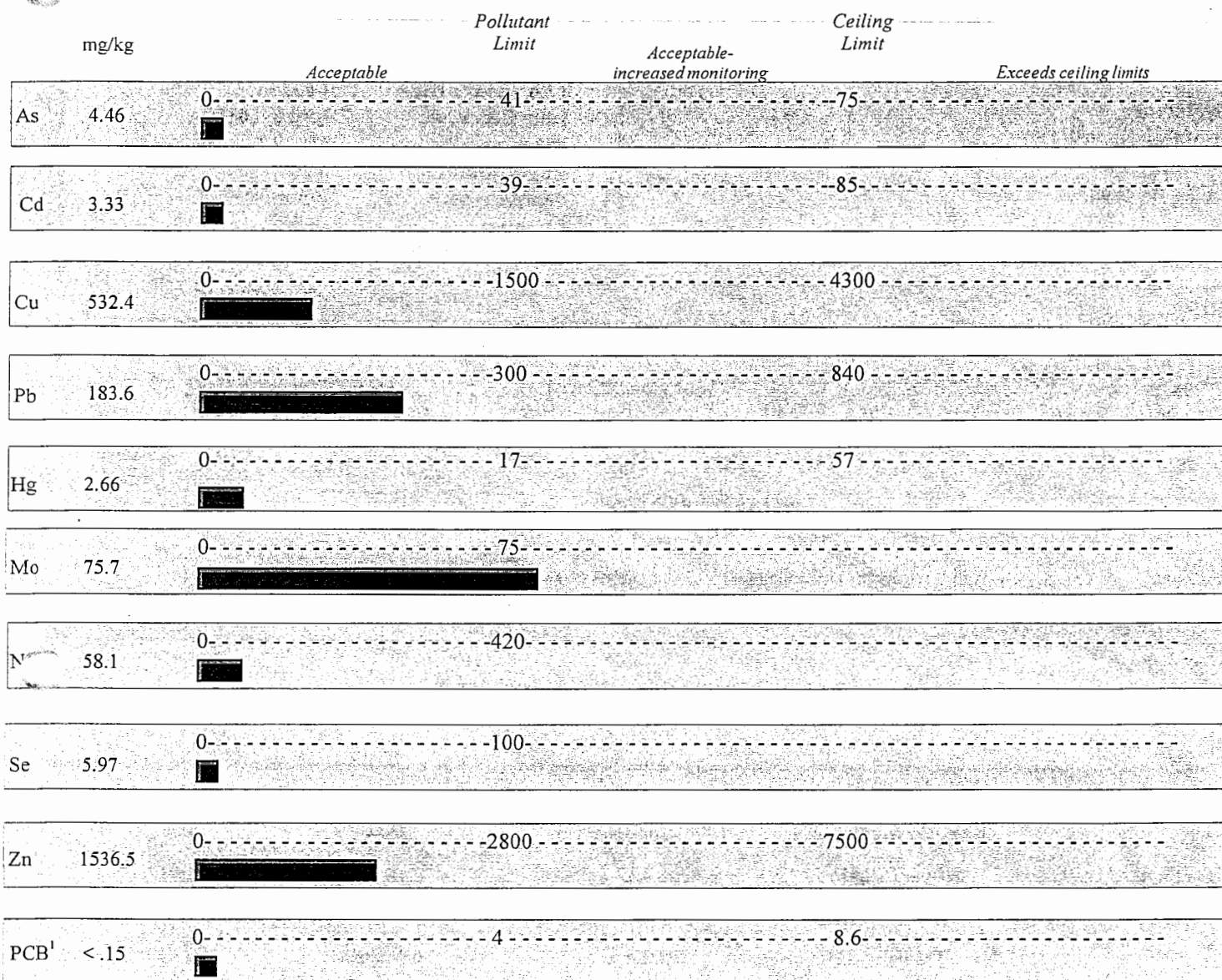
RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.872	1.872	1.872	0.265	1.872	1.872	1.872	1.872	1.872
Analyte conc. in sample/digest (mg/L except Hg)	0.030	0.022	3.56	0.126 ug	0.51	0.39	1.23	0.04	10.26
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15386 Date Received: July 17, 2012 Date Sampled: 7/3/12 Report Date: 8/7/12 Sample type: Composite County: Berks Customer Sample ID: 12-5978
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 23.8 C	— % —											
8.0	18.74	63.74	5.19	3.70	1.49	1.94	0.09	0.40	6.44	0.10	1.14	0.82
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1408.4	3.66	3.68	125.2	535.2	140.8	2.84	79.4	51.2	5.27	1594.9	< .14	< 1

NR-Not Requested One dry ton of this material is equivalent to 1280 gallons of wet material or 5.3 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)	
total N	5.19	0.96 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.44	2.58 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.11	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	7/30/2012	11:50:43
As	3050B + 6010	Brooks	7/30/2012	11:50:43
Se	3050B + 6010	Brooks	7/30/2012	11:50:43
Hg	7473	Rishel	7/26/2012	10:00:26 AM
PCB ¹	8082			

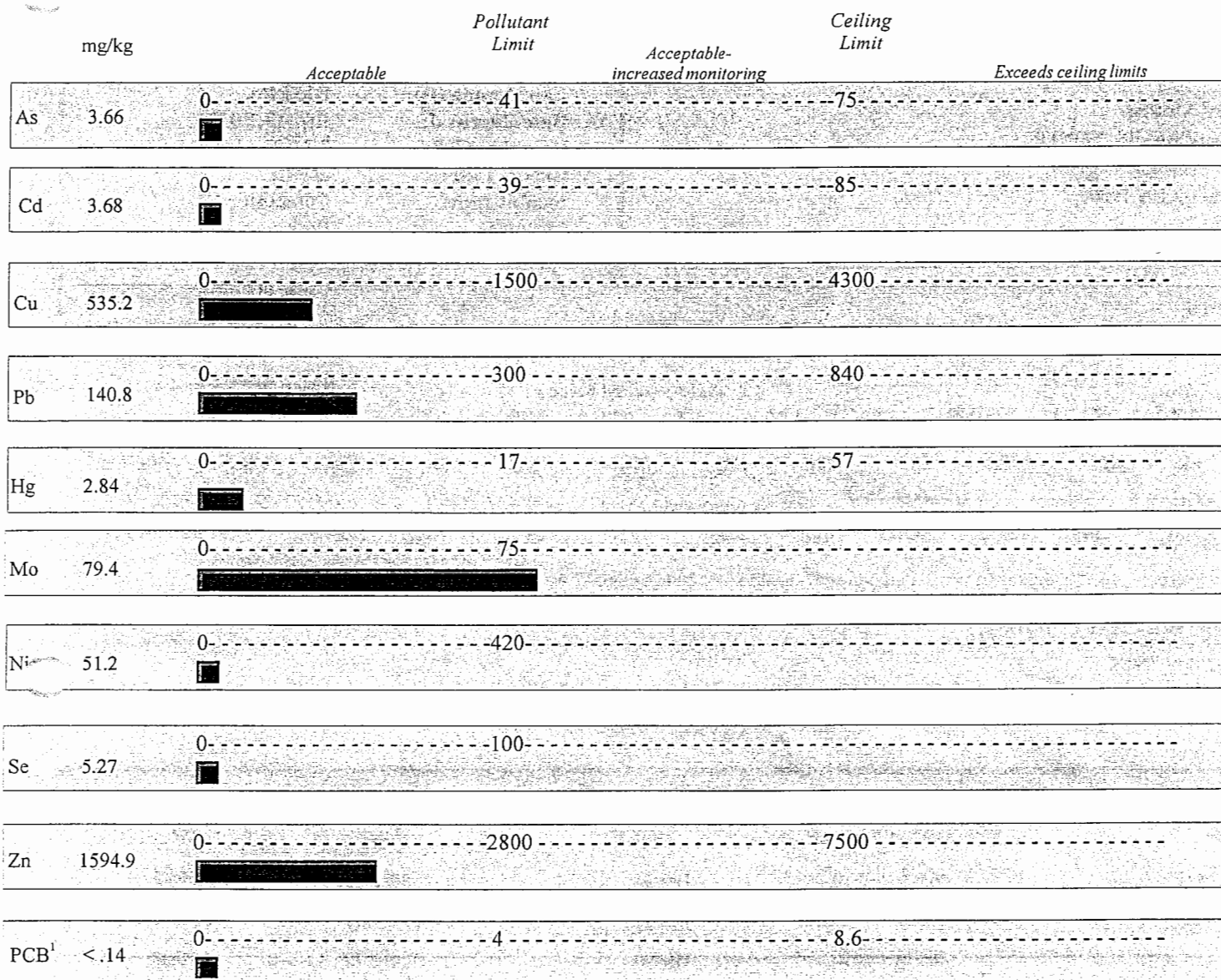
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.052	2.052	2.052	0.303	2.052	2.052	2.052	2.052	2.052
Analyte conc. in sample/digest (mg/L except Hg)	0.028	0.028	4.12	0.161 ug	0.61	0.39	1.08	0.04	12.26
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
total-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15424 Date Received: August 17, 2012 Date Sampled: 8/7/12 Report Date: 9/7/12 Sample type: Composite County: Customer Sample ID: Belt Press Biosolids
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 25.2 C	— % —					% (dry weight basis)						
8.3	19.75	63.00	5.31	4.57	0.74	1.89	0.10	0.40	6.54	0.10	1.34	0.92
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1639.7	3.33	3.80	132.0	552.6	131.0	1.39	92.6	102.9	5.76	1542.3	< .14	< 1

NR-Not Requested One dry ton of this material is equivalent to 1214 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	5.31	0.94 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.32	2.65 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.12	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	8/24/2012	8:28:04
As	3050B + 6010	Stecko	8/24/2012	8:28:04
Se	3050B + 6010	Stecko	8/24/2012	8:28:04
Hg	7473	Rishel	8/21/2012	1:26:40 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

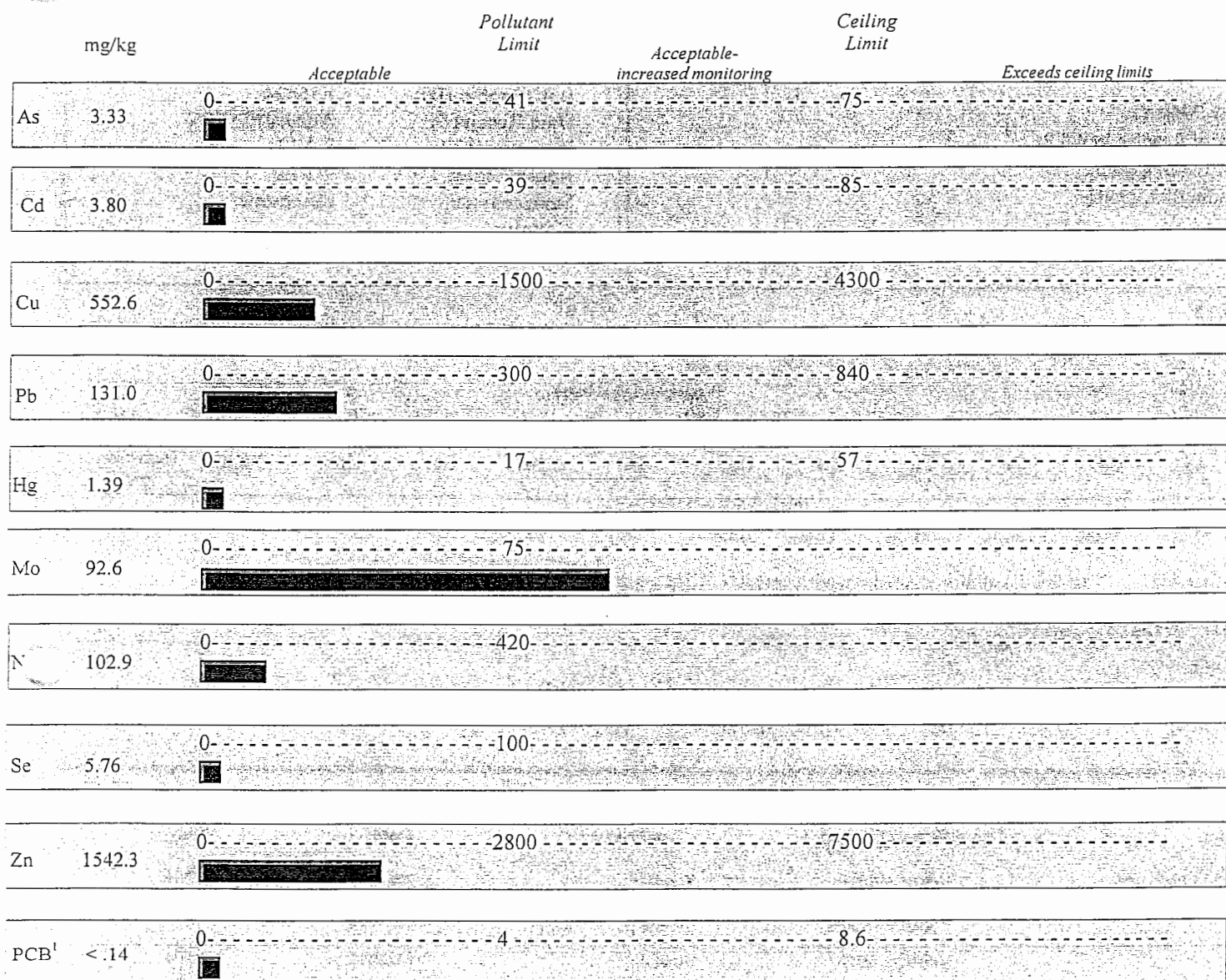
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.163	2.163	2.163	0.267	2.163	2.163	2.163	2.163	2.163
Analyte conc. in sample/ digest (mg/L except Hg)	0.028	0.032	4.72	0.074 ug	0.79	0.88	1.12	0.05	13.18
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

Inorganic-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15454 Date Received: September 10, 2012 Date Sampled: 9/4/12 Report Date: 9/26/12 Sample type: Composite County: Customer Sample ID: 12-7988 Belt Press Sludge
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.4 C	— % —											
8.0	20.27	61.86	5.14	4.22	0.92	1.85	0.09	0.41	6.34	0.09	1.33	0.89
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1637.6	3.2	3.98	133.0	578.5	125.0	1.60	97.5	80.0	5.1	1773.8	< .13	< 1

NR-Not Requested One dry ton of this material is equivalent to 1183 gallons of wet material or 4.9 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)	
Total N	5.14	0.97 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.24	2.70 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.11	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	9/17/2012	12:11:01
As	3050B + 6010	Brooks	9/17/2012	12:11:01
Se	3050B + 6010	Brooks	9/17/2012	12:11:01
Hg	7473	Brooks	9/13/2012	1:12:44 PM
PCB ¹	8082			

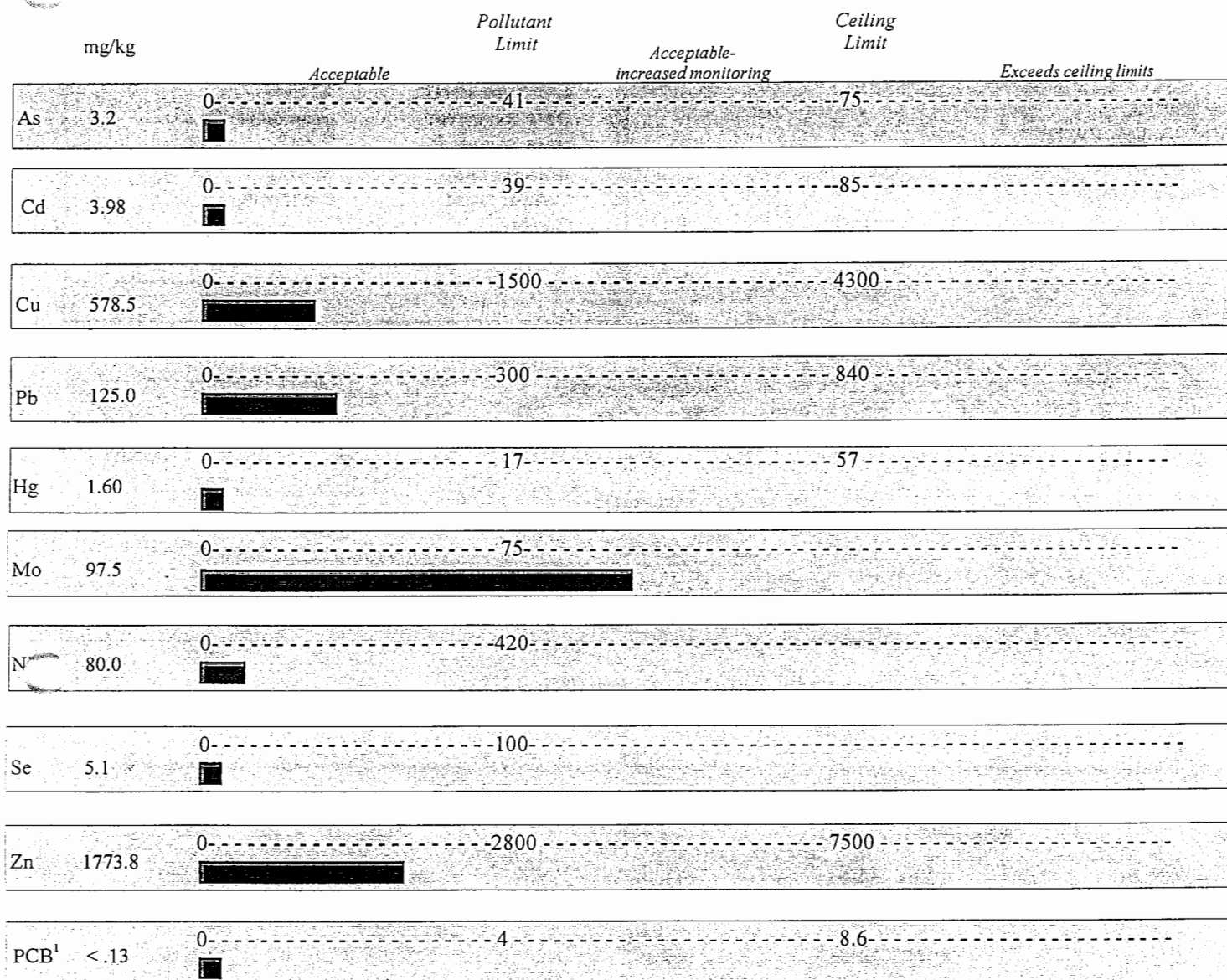
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.768	1.768	1.768	0.299	1.768	1.768	1.768	1.768	1.768
Analyte conc. in sample/ digest (mg/L except Hg)	0.023	0.029	4.15	0.097 ug	0.70	0.57	0.90	0.04	12.71
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID: E15496
Date Received: October 4, 2012
Date Sampled: 10/2/12
Report Date: 10/18/12
Sample type: Composite
County:
Customer Sample ID: Belt Press Biosolids 12-8905

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.7 C	%					% (dry weight basis)						
8.3	17.93	63.74	5.66	4.82	0.84	1.92	0.10	0.41	6.79	0.09	1.48	0.79
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1522.1	3.97	4.63	118.4	578.6	177.5	1.52	101.6	63.3	6.77	1665.6	< .15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1337 gallons of wet material or 5.6 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)	
Total N	5.66	0.88 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.40	2.60 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.11	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	10/12/2012	11:08:06
As	3050B + 6010	Brooks	10/12/2012	11:08:06
Se	3050B + 6010	Brooks	10/12/2012	11:08:06
Hg	7473	Rishel	10/15/2012	11:49:05 AM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

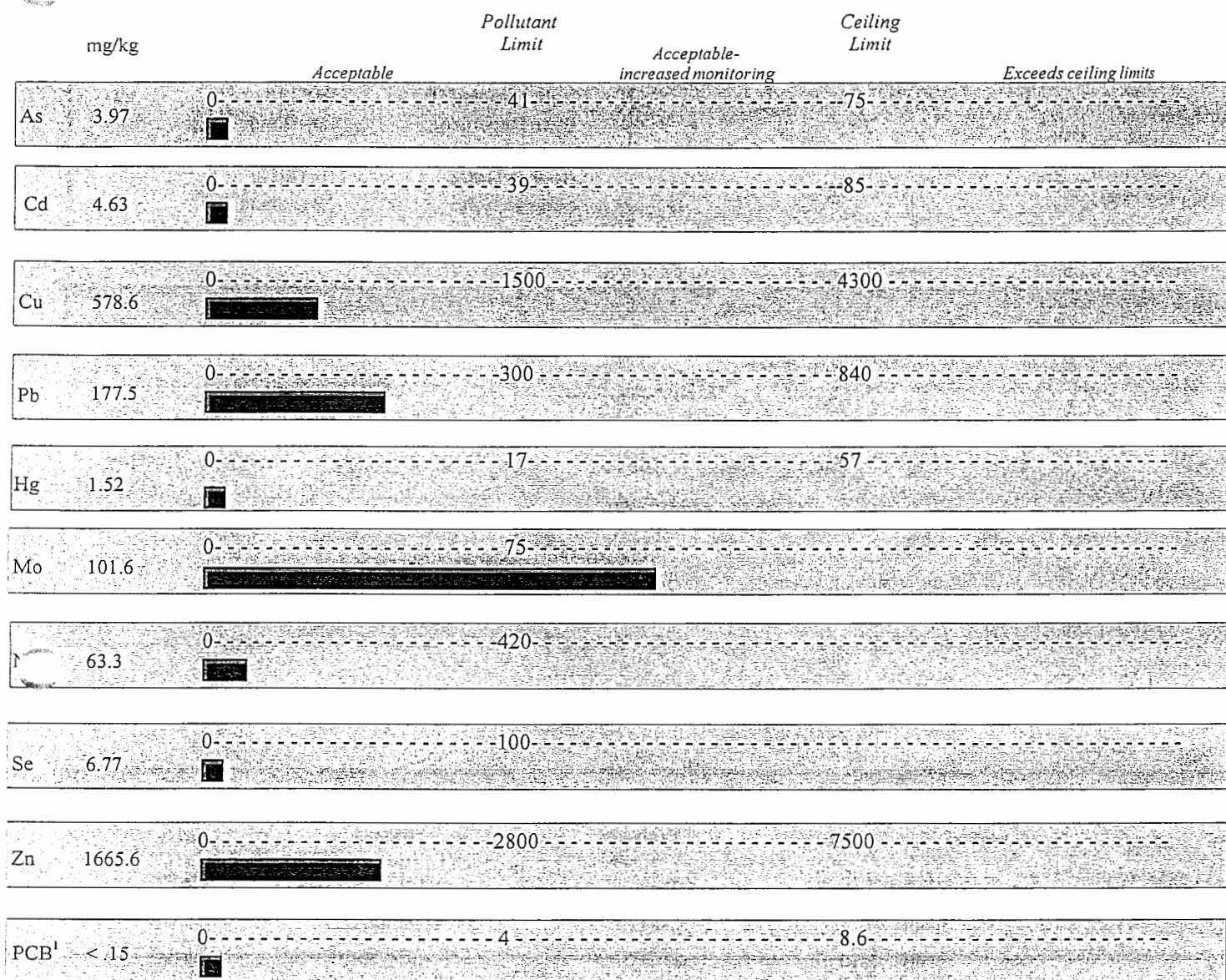
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.201	2.201	2.201	0.234	2.201	2.201	2.201	2.201	2.201
Analyte conc. in sample/digest (mg/L except Hg)	0.031	0.037	4.57	0.064 ug	0.80	0.50	1.40	0.05	13.15
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

te-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p> <p style="text-align: center;">RECEIVED DEC 03 2012 DEPT. OF PUBLIC WORKS</p>	<p>Lab Sample ID: E15569 Date Received: November 12, 2012 Date Sampled: 11/6/12 Report Date: 11/26/12 Sample type: County: Customer Sample ID: Belt Press Biosolids 12-10018</p>
---	--

RESULTS												
pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22 C	— % —					% (dry weight basis)						
8.1	18.34	66.37	5.51	4.59	0.93	1.95	0.13	0.41	5.70	0.10	1.40	0.81
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
1467.7	3.98	4.00	116.9	567.6	179.6	1.36	101.0	57.1	4.98	1777.5	< .15	< 1
NR-Not Requested One dry ton of this material is equivalent to 1307 gallons of wet material or 5.5 tons of wet material												

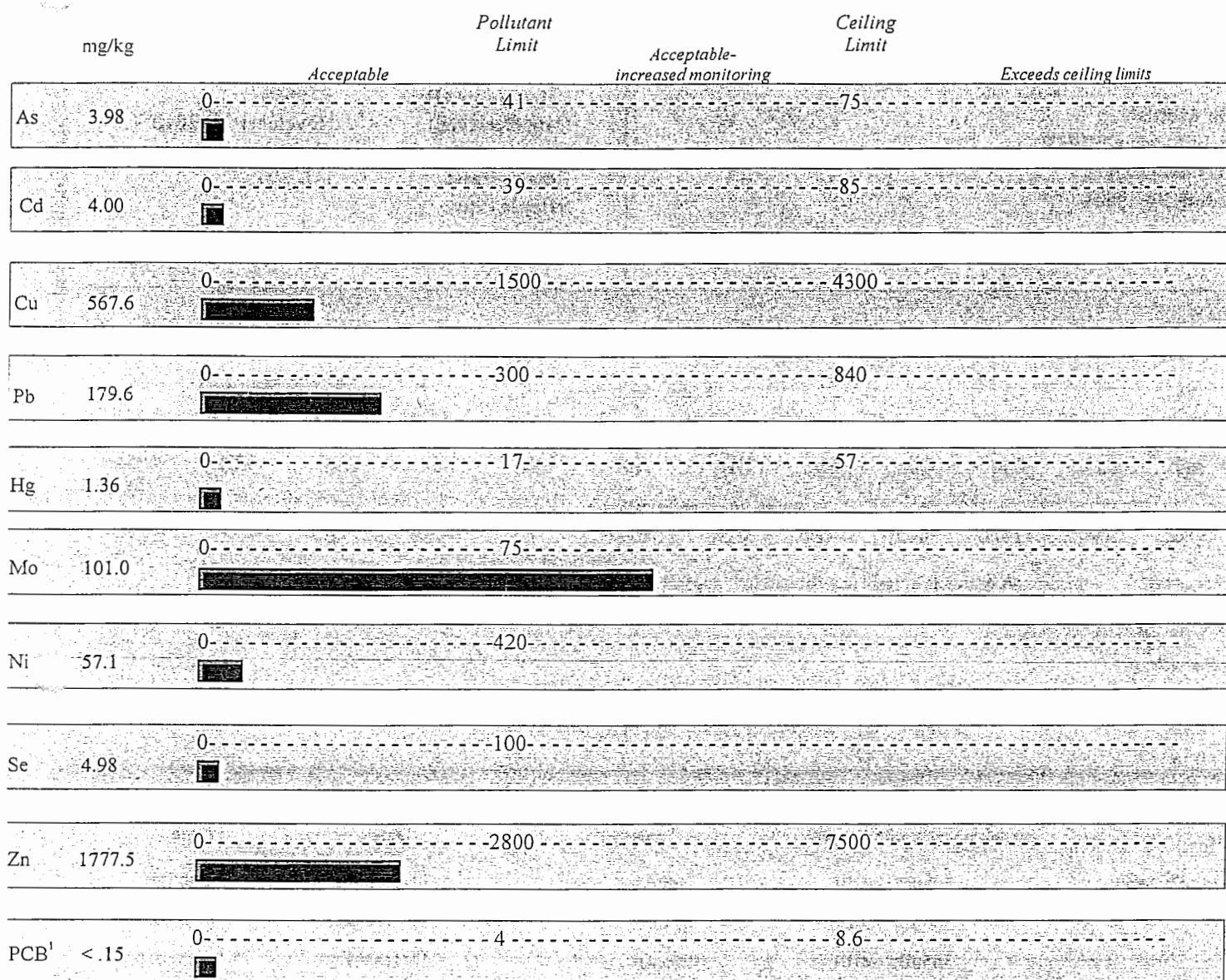
PRIMARY NUTRIENT CONTENT			
% (dry wt basis)			
al N	5.51	0.91	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.47	2.56	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.15		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS				
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	11/16/2012	10:45:58
As	3050B + 6010	Brooks	11/16/2012	10:45:58
Se	3050B + 6010	Brooks	11/16/2012	10:45:58
Hg	7473	Rishel	11/14/2012	2:26:45 PM
PCB ¹	8082			
¹ Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)				

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS									
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.503	2.503	2.503	0.268	2.503	2.503	2.503	2.503	2.503
Analyte conc. in sample/ digest (mg/L except Hg)	0.037	0.037	5.21	0.067 ug	0.93	0.52	1.65	0.05	16.32
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
N ₂ e-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p>	<p>Lab Sample ID: E15606 Date Received: December 7, 2012 Date Sampled: 12/4/12 Report Date: 12/18/12 Sample type: County: Customer Sample ID: Belt Press Sludge 12-10902</p>
---	--

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al	
@ 22.2 C	— % —						% (dry weight basis)						
8.2	19.36	62.97	5.03	3.97	1.06	1.92	0.09	0.40	6.87	0.09	1.33	0.78	
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN	
mg/kg (dry weight basis)													
1493.5	3.85	4.44	99.9	509.7	155.4	1.19	71.5	63.7	<3.6	1437.6	<.14	< 1	

NR-Not Requested One dry ton of this material is equivalent to 1239 gallons of wet material or 5.2 tons of wet material

Nutrient		% (dry wt basis)	
Total N	5.03	0.99	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.39	2.61	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.11		

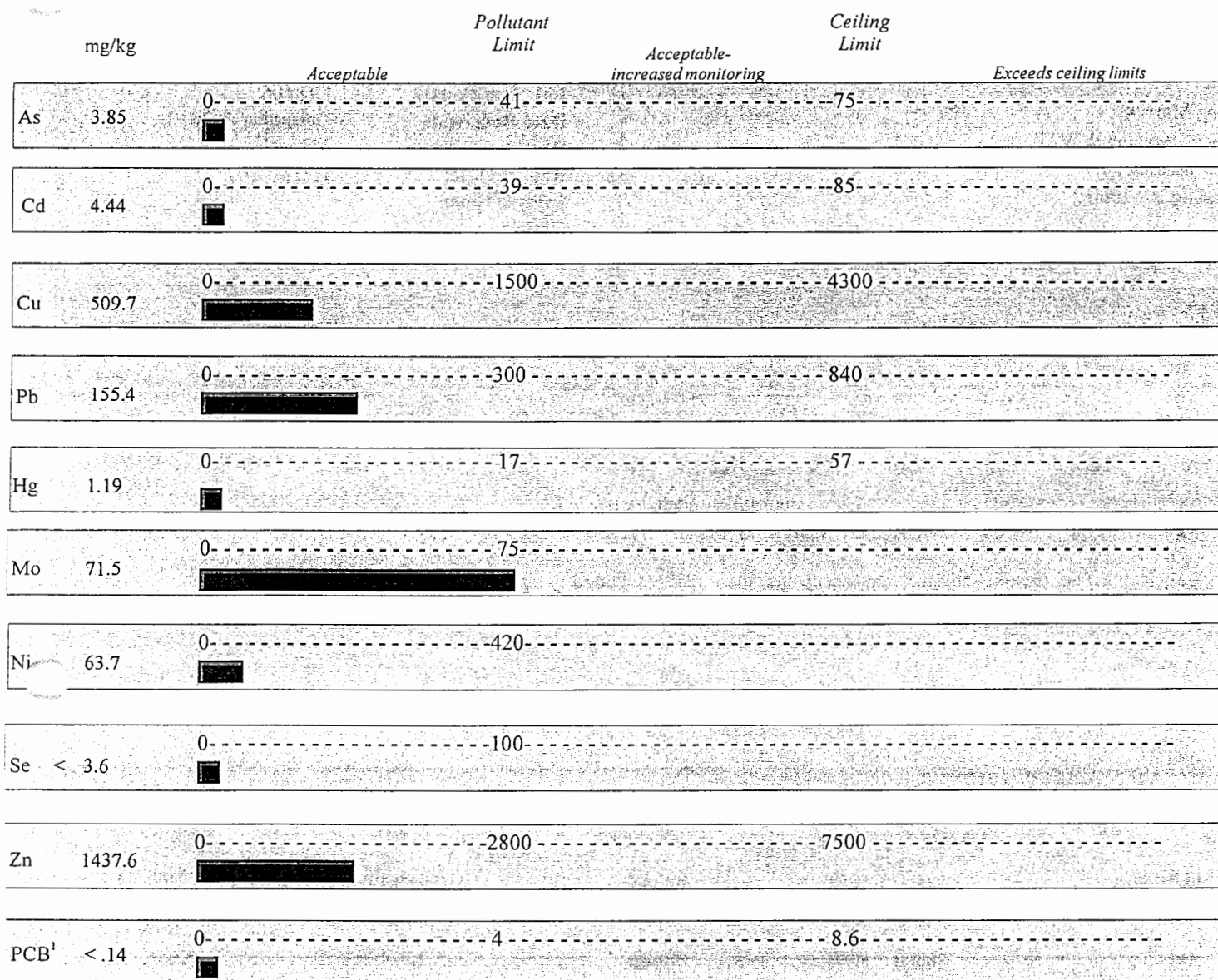
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	12/14/2012	13:02:00
As	3050B + 6010	Brooks	12/14/2012	13:02:00
Se	3050B + 6010	Brooks	12/14/2012	13:02:00
Hg	7473	Brooks	12/12/2012	11:54:07 AM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.795	1.795	1.795	0.413	1.795	1.795	1.795	1.795	1.795
Analyte conc. in sample/ digest (mg/L except Hg)	0.027	0.031	3.54	0.095 ug	0.50	0.44	1.08	0.02	9.99
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**



Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
1/17/2012	#1	PAL	125,356
1/18/2012	#2	JAH	88,407
1/18/2012	#3	JAH	150,159
1/19/2012	#4	PAL	62,726
1/20/2012	#5	PAL	104,870
1/20/2012	#6	PAL	274,015
1/20/2012	#7	PAL	165,141
2/7/2012	#1	JAH	121,036
2/7/2012	#2	JAH	96,498
2/8/2012	#3	ADM	44,540
2/8/2012	#4	ADM	79,189
2/8/2012	#5	ADM	95,028
2/9/2012	#6	PAL	69,971
2/9/2012	#7	PAL	58,866
3/14/2012	#1	PAL	170,068
3/14/2012	#2	PAL	157,044
3/14/2012	#3	PAL	115,518
3/15/2012	#4	PAL	76,856
3/15/2012	#5	PAL	122,767
3/16/2012	#6	JAH	252,105
3/16/2012	#7	JAH	122,424
4/12/2012	#1	PAL	291,298
4/12/2012	#2	JAH	418,272
4/12/2012	#3	JAH	570,297
4/13/2012	#4	ADM	98,791
4/17/2012	#5	PAL	141,004
4/17/2012	#6	JAW	141,033
4/17/2012	#7	JAW	116,330

Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
5/8/2012	#1	JAH	188,088
5/8/2012	#2	JAH	115,308
5/8/2012	#3	JAH	145,396
5/9/2012	#4	JAW	104,496
5/9/2012	#5	JAW	113,241
5/9/2012	#6	JAW	203,863
5/10/2012	#7	ADM	123,707
6/7/2012	#1	PAL	126,291
6/7/2012	#2	PAL	185,251
6/7/2012	#3	PAL	215,708
6/7/2012	#4	PAL	209,861
6/12/2012	#5	ADM	94,291
6/12/2012	#6	ADM	73,896
6/12/2012	#7	ADM	83,886
7/6/2012	#1	JAW	80,963
7/6/2012	#2	JAW	50,962
7/6/2012	#3	JAW	46,434
7/16/2012	#4	JAW	43,848
7/16/2012	#5	JAW	31,151
7/16/2012	#6	JAW	36,185
7/17/2012	#7	ADM	86,114
8/13/2012	#1	JAH	47,875
8/13/2012	#2	JAH	55,390
8/13/2012	#3	JAH	76,473
8/20/2012	#4	JAH	135,130
8/20/2012	#5	JAH	148,760
8/20/2012	#6	JAH	91,033
8/21/2012	#7	JAW	51,911

Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
9/11/2012	#1	JAW	35,920
9/11/2012	#2	JAW	50,164
9/11/2012	#3	JAW	50,021
9/12/2012	#4	JAH	59,253
9/12/2012	#5	JAW	74,244
9/12/2012	#6	JAW	46,511
9/12/2012	#7	JAW	79,805
10/4/2012	#1	ADM	77,307
10/5/2012	#2	JAH	72,185
10/5/2012	#3	JAH	80,354
10/5/2012	#4	JAH	67,893
10/9/2012	#5	JAH	169,765
10/9/2012	#6	JAH	144,247
10/9/2012	#7	JAH	171,263
11/1/2012	#1	JAW	147,800
11/1/2012	#2	JAW	126,249
11/2/2012	#3	JAW	59,814
11/2/2012	#4	JAW	636,430
11/5/2012	#5	JAH	155,652
11/5/2012	#6	JAH	238,051
11/6/2012	#7	JAW	93,897
12/7/2012	#1	JAW	169,055
12/7/2012	#2	JAW	134,005
12/7/2012	#3	JAW	196,627
12/17/2012	#4	JAW	52,424
12/17/2012	#5	JAW	79,999
12/17/2012	#6	JAW	51,253
12/17/2012	#7	JAW	63,766



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



RECEIVED

JAN 20 2012

DEPT. OF PUBLIC WORKS

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/17/12
Lab ID: 0124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Description: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 + Qtr
plus Quarterly Analysis)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2.17	* mg/kg	2.17	DEP 1	01/06	16:06	jcl
Cyanide, Reactive	<140	* mg/kg	140	SW846 7.3	01/06	16:06	jcl
Cyanide, Total	4	* mg/kg	2	10204001X	01/06	16:06	jcl
Phenols (4AAP)	28	* mg/kg	5.4	EPA 420.4	01/06	13:41	jcl
Phosphorus as P, Total	17100	* mg/kg	679	SM 4500P-E	01/11	14:00	ald
OTHER							
Paint Filter Liquids Test	NoFreeLiquid	NA	1	SW846 9095	01/11	17:49	whc
PHYSICAL							
Corrosivity	NotCorrosive	su	1	SW846 7.2	01/12	12:50	whc
Ignitability	NotIgnitable	None	1	SW846 1030	01/11	17:58	whc
pH	8.26	su	2	SW846 9045	01/06	11:50	emw
Reactivity	NotReactive	NA	1	SW846 7.3	01/13	08:30	ald
Visual Color	dark grey	na	1	VISUAL	01/13	08:30	ald
RESIDUES							
Solids, Total Volatile	65.6	%	1	SM 2540G	01/05	17:00	jxs
Total Solids	18.4	%	1	SM 2540G	01/06	17:00	jxs
TITRATIONS							
Sulfide, Reactive	554	* mg/kg	272	SW846 7.3	01/10	19:25	whc
INORGANIC							
TOTAL							
Arsenic, Total	2	* mg/kg	0.5	EPA 200.9	01/10	14:52	rls
Barium, Total	430	* mg/kg	2.72	SW846 6010	01/13	10:52	lra
Cadmium, Total	5	* mg/kg	3	SW846 6010	01/13	10:52	lra
Chromium, Total	100	* mg/kg	2.72	SW846 6010	01/13	10:52	lra
Copper, Total	652	* mg/kg	5.43	SW846 6010	01/13	10:52	lra
Lead, Total	130	* mg/kg	5.4	SW846 6010	01/13	10:52	lra
Mercury, Total	7.6	* mg/kg	1.1	SW846 7471	01/10	11:47	jaw

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

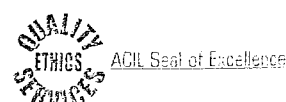
Richard Wolfe
Technical Director

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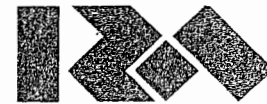
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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED
JAN 20 2012
DEPT. OF ENVIRONMENTAL PROTECTION

Date of Report: 01/17/12
Lab ID: 0124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Description: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43
plus Quarterly Analysis)

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Molybdenum, Total	50	* mg/kg	5	SW846 6010	01/13	10:52	lna
Nickel, Total	48	* mg/kg	2.7	SW846 6010	01/13	10:52	lna
Selenium, Total	6.5	* mg/kg	1.1	EPA 200.9	01/10	21:43	rls
Silver, Total	9.8	* mg/kg	2.7	SW846 6010	01/11	10:52	lna
Zinc, Total	1630	* mg/kg	2.72	SW846 6010	01/13	10:52	lna
O&G/TPH							
GENERAL							
Oil and Grease	50880	* mg/L	27.17	EPA 1664	01/05	07:15	wxc
Total Petroleum Hydrocarbons	14950	* mg/L	27.17	EPA 1664	01/06	11:45	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<27.2	* mg/kg	27.2	SW846 8270	01/11	17:26	meb
EXTRACTION							
SW846 8082 Extraction	complete	mg/L	1	SW846 8082	01/05	13:00	jlw
SW846 8270 Extraction	complete	mg/L	1	SW846 8270	01/09	13:00	jlw
PCBS							
PCB-1016	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1221	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1232	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1242	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1248	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1254	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh
PCB-1260	<1.09	* mg/kg	1.09	SW846 8082	01/07	10:50	twh

COMMENTS:

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

2 - The Phenols matrix spike was high indicating possible sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe

Richard Wolfe
Technical Director

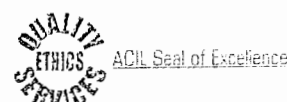
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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

REC'D
JAN 20 2012
10:11 AM

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.4	mg/kg	.4	1	DEP 1	01/06	16:06	JCL
Cyanide, Reactive	<25	mg/kg	25	1	SW846 7.3	01/06	16:06	JCL
Cyanide, Total	0.8	mg/kg	.4	1	10204001X	01/06	16:06	JCL
Phenols (4AAP)	5.1	mg/kg	1	1	EPA 420.4	01/06	13:41	JCL
Phosphorus as P, Total	3140	mg/kg	125	25	SM 4500P-E	01/11	14:00	ALD
OTHER								
Paint Filter Liquids Test	NoFreeLiquid	NA	1	1	SW846 9095	01/11	17:49	WHC
PHYSICAL								
Corrosivity	NotCorrosive	su	1	1	SW846 7.2	01/12	12:50	WHC
Ignitability	NotIgnitable	None	1	1	SW846 1030	01/11	17:58	WHC
pH	8.26	su	2	1	SW846 9045	01/06	11:50	EMW
Reactivity	NotReactive	NA	1	1	SW846 7.3	01/13	08:30	ALD
Visual Color	dark grey	na	1	1	VISUAL	01/13	08:30	ALD
RESIDUES								
Solids, Total Volatile	65.6	%	1	1	SM 2540G	01/05	17:00	JXS
Total Solids	18.4	%	1	1	SM 2540G	01/06	17:00	JXS
TITRATIONS								
Sulfide, Reactive	102	mg/kg	50	1	SW846 7.3	01/10	19:25	WHC
INORGANIC								
TOTAL								
Arsenic, Total	0.4	mg/kg	.1	1	EPA 200.9	01/10	14:52	RLS
Barium, Total	79.1	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Cadmium, Total	0.9	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Chromium, Total	18.5	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Copper, Total	120	mg/kg	1	1	SW846 6010	01/13	10:52	LNA
Lead, Total	24	mg/kg	1	1	SW846 6010	01/13	10:52	LNA
Mercury, Total	1.4	mg/kg	.2	1	SW846 7471	01/10	11:47	JAW
Molybdenum, Total	9	mg/kg	1	1	SW846 6010	01/13	10:52	LNA

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 20 2012
DEPT. OF PUBLIC WORKS

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

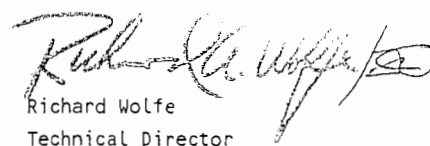
Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Nickel, Total	8.8	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
Selenium, Total	1.2	mg/kg	.2	1	EPA 200.9	01/10	21:43	RLS
Silver, Total	1.8	mg/kg	.5	1	SW846 6010	01/11	10:52	LNA
Zinc, Total	300	mg/kg	.5	1	SW846 6010	01/13	10:52	LNA
O&G/TPH								
GENERAL								
Oil and Grease	9363	mg/l	5	1	EPA 1664	01/05	07:15	WXC
Total Petroleum Hydrocarbons	2751	mg/l	5	1	EPA 1664	01/06	11:45	WXC
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	mg/kg	5	10	SW846 8270	01/11	17:26	MEB
EXTRACTION								
SW846 8082 Extraction	complete	mg/l	1	1	SW846 8082	01/05	13:00	JLV
SW846 8270 Extraction	complete	mg/l	1	1	SW846 8270	01/09	13:00	JLV
PCBS								
PCB-1016	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1221	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1232	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1242	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1248	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1254	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH
PCB-1260	<.2	mg/kg	.2	1	SW846 8082	01/07	10:50	TWH

COMMENTS

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Reading PA 19601

Date of Report: 01/17/12
Lab ID: 124-12-0001406
Date Collected: 01/03/12 09:00
Collected By: CLIENT
Date Received: 01/04/12 15:20

Sample Desc: As Received * 12-107 Biosolids (Belt Press Sludge, Form 43 plus Quarterly Analysis)

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	------------	---------------	-----------	-----------	-----------	---------

01 The Phenols matrix spike was high indicating possible sample matrix interference.

02 The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

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815 Washington St.
Reading PA 19601

JAN 20 2012


Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.93	su	1	1	SW846 9040	01/06	07:30	JAW
pH, Leachate	5.64	su	1	1	SW846 9040	01/06	07:30	JAW
INORGANIC								
EXTRACTION								
TCLP Preparation	<1	Complete	1	1	EPA 1311	01/06	07:30	JAW
TCLP								
Arsenic, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Barium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Cadmium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Chromium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Iron, TCLP	<.2	mg/L	.2	1	SW846 6010	01/10	11:01	LNA
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	01/06	10:17	LNA
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	01/10	11:47	JAW
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	01/06	10:17	LNA
Nickel, TCLP	0.06	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Selenium, TCLP	<.05	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
Silver, TCLP	<.05	mg/L	.05	1	SW846 6010	01/11	10:52	LNA
Zinc, TCLP	0.26	mg/L	.05	1	SW846 6010	01/06	10:17	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Cresols, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Pentachlorophenol, TCLP	<250	ug/L	250	1	SW846 8270	01/11	07:54	MEB
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Hexachlorobenzene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB

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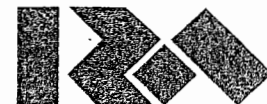
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Reading PA 19601

Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)

JAN 20 2012

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Hexachloroethane, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Nitrobenzene, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
Pyridine, TCLP	<50	ug/L	50	1	SW846 8270	01/11	07:54	MEB
EXTRACTION								
SM 6640B Extraction	complete	mg/L	1	1	SM 6640B	01/10	07:00	JLV
SW846 8081 Extraction	complete	ug/L	1	1	SW846 8081	01/10	07:00	KLE
SW846 8270 Extraction	complete	mg/L	1	1	SW846 8270	01/09	07:00	JLV
HERBICIDES								
2,4,5-TP Silvex, TCLP	<1	ug/L	1	1	SM 6640B	01/12	20:49	TWH
2,4-D, TCLP	<1	ug/L	1	1	SM 6640B	01/12	20:49	TWH
PESTICIDES								
Chlordane, TCLP	<5	ug/L	5	1	SW846 8081	01/12	01:40	TWH
Endrin, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Heptachlor (and hydroxide), TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Heptachlor Epoxide, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Lindane, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Methoxychlor, TCLP	<.5	ug/L	.5	1	SW846 8081	01/12	01:40	TWH
Toxaphene, TCLP	<10	ug/L	10	1	SW846 8081	01/12	01:40	TWH
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Benzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Chlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Chloroform, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/L	200	1	SW846 8260	01/11	10:44	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF

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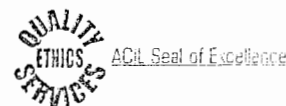
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Reading PA 19601

PAID
JAN 20 2012

Date of Report: 01/17/12
Lab ID: 124-12-0001407
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: TCLP * 12-107 Biosolids (Belt Press Sludge, Form 43)

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	01/11	10:44	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/L	100	1	SW846 8260	01/11	10:44	GXF

COMMENTS

- 01 The sw846 8270 method QC had low recovery for Pyridine but the other quality control sample was fine for this compound.

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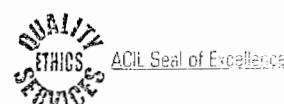

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Date of Report: 01/17/12
Lab ID: 124-12-0001408
Date Collected: 01/03/12 09:00
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: ASTM * 12-107 Biosolids (Belt Press Sludge, Form 43)

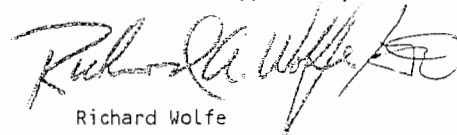
	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	70	mg/L	5	50	D6919-03	01/09	20:39	JCL
OTHER								
Chemical Oxygen Demand	305	mg/L	25	1	HACH8000	01/09	09:15	TMH
PHYSICAL								
pH	8.67	su	1	1	SM4500H-B	01/11	11:40	EMW
RESIDUES								
Solids, Total	490	mg/L	5	1	SM 2540B	01/09	14:20	JXS
INORGANIC								
EXTRACTION								
ASTM Preparation		Complete	1	1	ASTM	01/06	07:30	JAW
~ /TPH								
GENERAL								
Oil and Grease	<10	mg/L	10	1	EPA 1664	01/09	08:00	WXC
Total Petroleum Hydrocarbons	<5	mg/L	5	1	EPA 1664	01/09	12:15	WXC

COMMENTS

- 01 The laboratory pH was analyzed beyond the recommended 15 minute holding time.

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Date of Report: 01/17/12
Lab ID: 124-12-0001409
Date Collected: 01/03/12 11:07
Collected By: Client
Date Received: 01/04/12 15:20

Sample Desc: GC 12-126 (Composite)


	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0003	mg/L	.0002	1	EPA 245.1	01/10	11:47	JAW

COMMENTS

- 01 The sample was run as a duplicate with results of 0.0003 and 0.0001 mg/L. The RPD was greater than 20%. Matrix spikes of this sample were acceptable.

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Reading PA 19601

Date of Report: 09/27/12
Lab ID: 0124-12-0032797
Date Collected: 08/07/12 09:10
Collected By: Client
Date Received: 08/08/12 16:15

Sample Description: As Rec'd * Biosolids 12-7076 (Form 43)

* Results Expressed as Dry Weight		Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
	Cyanide, Reactive	<120	* mg/kg	120	SW846 7.3	08/10	14:52	jcl
OTHER								
	Paint Filter Liquids Test	NoFreeLiquids		0	SW846 9095	08/15	14:25	kle
PHYSICAL								
	Corrosivity	Not Corrosive		0	SW846 7.2	08/14	08:35	ald
	Ignitability	Not Ignitable		0	SW846 1030	08/15	15:07	kle
	pH	8.22	su	2	SW846 9045	08/10	14:35	emw
	Reactivity	Not Reactive		0	SW846 7.3	08/17	09:20	ald
RESIDUES								
	Solids, Total Volatile	62.6	%	1	SM 2540G	08/14	15:10	rdd
	Total Solids	20.9	%	1	SM 2540G	08/14	09:30	rdd
TITRATIONS								
	Sulfide, Reactive	933	* mg/kg	239	SW846 7.3	08/10	17:28	whc
INORGANIC								
TOTAL								
	Arsenic, Total	2	* mg/kg	0.5	EPA 200.9	08/10	15:12	rls
	Barium, Total	348	* mg/kg	2.39	SW846 6010	08/09	12:48	lna
	Cadmium, Total	4	* mg/kg	2	SW846 6010	08/09	12:48	lna
	Chromium, Total	99.5	* mg/kg	2.39	SW846 6010	08/09	12:48	lna
	Copper, Total	560	* mg/kg	4.78	SW846 6010	08/09	12:48	lna
	Lead, Total	290	* mg/kg	4.8	SW846 6010	08/09	12:48	lna
	Mercury, Total	1	* mg/kg	1	SW846 7471	08/15	15:38	jxs
	Molybdenum, Total	76	* mg/kg	4.8	SW846 6010	08/09	12:48	lna
	Nickel, Total	62.2	* mg/kg	2.39	SW846 6010	08/09	12:48	lna
	Selenium, Total	5.3	* mg/kg	0.96	EPA 200.9	08/14	17:05	rls
	Silver, Total	8.6	* mg/kg	2.4	SW846 6010	08/14	10:11	btg
	Zinc, Total	1430	* mg/kg	2.39	SW846 6010	08/09	12:48	lna

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Reading PA 19601

Date of Report: 09/27/12
Lab ID: 0124-12-0032797
Date Collected: 08/07/12 09:10
Collected By: Client
Date Received: 08/08/12 16:15

Sample Description: As Rec'd * Biosolids 12-7076 (Form 43)

* Results Expressed as Dry Weight		Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
O&G/TPH								
GENERAL								
Oil and Grease		12780	* mg/kg	1196	EPA 1664	08/14	06:15	wxc
Total Petroleum Hydrocarbons		4310	* mg/kg	23.9	EPA 1664	08/14	15:00	wxc
ORGANIC								
EXTRACTION								
SW846 8082 Extraction		Complete		0	SW846 8082	08/15	07:30	jlw
PCBS								
PCB-1016		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1221		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1232		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1242		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1248		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1254		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh
PCB-1260		<0.957	* ug/kg	0.957	SW846 8082	08/16	08:05	twh

COMMENTS:

- 1 - For SW846 8082 the CCV had high PCB recoveries, however PCBs were not detected in the sample above the laboratory reporting limit.
- 2 - For SW846 8082 the sample had a high surrogate recovery.

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Date of Report: 08/22/12
Lab ID: 124-12-0032797

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: As Rec'd * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Reactive	<25	mg/kg	25	1	SW846 7.3	08/10	14:52	JCL
OTHER								
Paint Filter Liquids Test	NoFreeLiquids		0	0	SW846 9095	08/15	14:25	KLE
PHYSICAL								
Corrosivity	Not Corrosive		0	0	SW846 7.2	08/14	08:35	ALD
Ignitability	Not Ignitable		0	0	SW846 1030	08/15	15:07	KLE
pH	8.22	su	2	1	SW846 9045	08/10	14:35	EMW
Reactivity	Not Reactive		0	0	SW846 7.3	08/17	09:20	ALD
RESIDUES								
Solids, Total Volatile	62.6	%	1	1	SM 2540G	08/14	15:10	RDD
Total Solids	20.9	%	1	1	SM 2540G	08/14	09:30	RDD
TITRATIONS								
Sulfide, Reactive	195	mg/kg	50	1	SW846 7.3	08/10	17:28	WHC
INORGANIC								
TOTAL								
Arsenic, Total	0.4	mg/kg	.1	1	EPA 200.9	08/10	15:12	RLS
Barium, Total	72.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Cadmium, Total	0.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Chromium, Total	20.8	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Copper, Total	117	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Lead, Total	61	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Mercury, Total	0.3	mg/kg	.2	1	SW846 7471	08/15	15:38	JXS
Molybdenum, Total	16	mg/kg	1	1	SW846 6010	08/09	12:48	LNA
Nickel, Total	13.0	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA
Selenium, Total	1.1	mg/kg	.2	1	EPA 200.9	08/14	17:05	RLS
Silver, Total	1.8	mg/kg	.5	1	SW846 6010	08/14	10:11	BTG
Zinc, Total	299	mg/kg	.5	1	SW846 6010	08/09	12:48	LNA

O&G/TPH

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Reviewed and Approved by:

Richard Wolfe
Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032797

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: As Rec'd * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
GENERAL								
Oil and Grease	2670	mg/kg	250	1	EPA 1664	08/14	06:15	WXC
Total Petroleum Hydrocarbons	900	mg/kg	5	1	EPA 1664	08/14	15:00	WXC
ORGANIC								
EXTRACTION								
SW846 8082 Extraction	Complete		0	0	SW846 8082	08/15	07:30	JLV
PCBS								
PCB-1016	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1221	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1232	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1242	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1248	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1254	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH
PCB-1260	<.2	ug/kg	.2	1	SW846 8082	08/16	08:05	TWH

COMMENTS

01 For SW846 8082 the CCV had high PCB recoveries, however PCBs were not detected in the sample above the laboratory reporting limit.

02 For SW846 8082 the sample had a high surrogate recovery.

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Richard Wolfe
Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

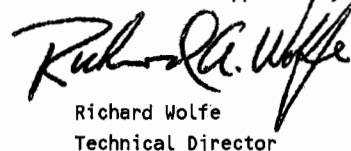
Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.98	su	1	1	SW846 9040	08/10	08:00	JXS
pH, Leachate	5.84	su	1	1	SW846 9040	08/10	08:00	JXS
INORGANIC								
EXTRACTION								
TCLP Preparation	Complete		0	0	EPA 1311	08/10	08:00	JXS
TCLP								
Arsenic, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Barium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Cadmium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Chromium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Iron, TCLP	<.2	mg/L	.2	1	SW846 6010	08/16	09:14	BTG
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	08/14	13:46	BTG
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	08/15	15:38	JXS
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	08/14	13:46	BTG
Nickel, TCLP	0.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Selenium, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
Silver, TCLP	<.05	mg/L	.05	1	SW846 6010	08/14	10:11	BTG
Zinc, TCLP	0.31	mg/L	.05	1	SW846 6010	08/14	13:46	BTG
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Cresols, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Pentachlorophenol, TCLP	<250	ug/L	250	1	SW846 8270	08/20	20:18	TWH
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Hexachlorobenzene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH

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Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Hexachloroethane, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Nitrobenzene, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
Pyridine, TCLP	<50	ug/L	50	1	SW846 8270	08/20	20:18	TWH
EXTRACTION								
SM 6640B Extraction	complete	ug/kg	1	1	SM 6640B	08/17	07:00	JLV
SW846 8081 Extraction	Complete		0	0	SW846 8081	08/13	07:00	JLV
SW846 8270 Extraction	complete	ug/L	1	1	SW846 8270	08/16	07:00	MCM
HERBICIDES								
2,4,5-TP Silvex, TCLP	<1	ug/L	1	1	SM 6640B	08/17	19:58	TWH
2,4-D, TCLP	<1	ug/L	1	1	SM 6640B	08/17	19:58	TWH
PESTICIDES								
Chlordane, TCLP	<5	ug/L	5	1	SW846 8081	08/15	23:37	TWH
Endrin, TCLP	<.5	ug/L	.5	1	SW846 8081	08/15	23:37	TWH
Heptachlor (and hydroxide), TCLP	<.5	ug/L	.5	1	SW846 8081	08/15	23:37	TWH
Heptachlor Epoxide, TCLP	<.5	ug/L	.5	1	SW846 8081	08/15	23:37	TWH
Lindane, TCLP	<.5	ug/L	.5	1	SW846 8081	08/15	23:37	TWH
Methoxychlor, TCLP	<.5	ug/L	.5	1	SW846 8081	08/15	23:37	TWH
Toxaphene, TCLP	<10	ug/L	10	1	SW846 8081	08/15	23:37	TWH
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Benzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Chlorobenzene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Chloroform, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/L	200	1	SW846 8260	08/16	09:08	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF

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Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032798

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: TCLP * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/L	50	1	SW846 8260	08/16	09:08	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/L	100	1	SW846 8260	08/16	09:08	GXF

COMMENTS

01 For SW846 8081 the CCV had a low Methoxychlor recovery.

02 For SM 6640B the sample and duplicate had low surrogate recoveries.

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Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/12
Lab ID: 124-12-0032799

Date Collected: 08/07/12 09:10
Collected By: Client

Sample Desc: ASTM * Biosolids 12-7076 (Form 43)

Date Received: 08/08/12 16:15

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	68	mg/L	2	20	D6919-03	08/13	20:25	JCL
OTHER								
Chemical Oxygen Demand	238	mg/L	25	1	HACH8000	08/14	06:50	ALD
PHYSICAL								
pH	8.04	su	1	1	SM4500H-B	08/10	16:40	EMW
RESIDUES								
Solids, Total	380	mg/L	1	1	SM 2540B	08/14	17:05	RDD
INORGANIC								
EXTRACTION								
ASTM Preparation	Complete		0	0	ASTM	08/10	08:00	JXS
Oil & Grease/TPH								
GENERAL								
Oil and Grease	<10	mg/L	10	1	EPA 1664	08/13	06:30	WXC
Total Petroleum Hydrocarbons	<10	mg/kg	10	1	EPA 1664	08/14	07:45	WXC

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Richard Wolfe
Technical Director

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Additional Testing for bis(2-Ethylhexyl)phthalate or semivolatiles on Plant Influent, Effluent and Biosolids

2012 Influent Testing for TKN, Total Phosphorus, o-phosphate

DEP letter and NPDES amendment for mercury limit

Bis(2-Ethylhexyl)phthalate

	Influent	Effluent	Biosolids
	$\mu\text{g/L}$	$\mu\text{g/L}$	ug/Kg
1/3/2012	16	<10	<27.2
1/17/2012	<10	<10	
2/7/2012	<10	<10	<14.5
2/21/2012	<10	12	
3/6/2012			<25.8
3/20/2012	<10	<10	
4/3/2012	<5	<5	<20
4/17/2012	<5	<5	
5/1/2012	5	<5	6.26
5/15/2012	6.92	<5	
6/5/2012	<5	<5	5
6/19/2012	5.3	<5	
7/3/2012	<5	<5	<5
7/9/2012	<5	<5	
8/7/2012	<5	<5	
8/14/2012	<5	<5	
8/21/2012	9.05	<5	
9/4/2012	9.23	<5	<11.9
9/25/2012	5	<5	
10/2/2012	<5	<5	15.8
10/16/2012	7.67	<5	
10/24/2012	5	5	
11/6/2012	<5	12	<10.6
11/20/2012	10	7.4	
12/4/2012	<5	<5	<13.4
12/18/2012	<5	<5	

Date	Influent Data		
	TKN	Total Phosphorus	Ortho P
	mg/L	mg/L	mg/L
1/18/2012	51.3	6.3	
1/19/2012			3.18
2/21/2012	61.3	9.0	
2/22/2012			3.50
4/17/2012	72.6	11.2	
4/18/2012			6.02
7/26/2012	62.9	7.6	
7/27/2012			1.89
10/23/2012	46.6	5.4	
10/24/2012			3.68



Pennsylvania Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

CMJ
KJE
DAB
RBT
JCH
Mooney
Hydro
Seck
File

AUG 31 2004

717-705-4707
717-705-4760

Southcentral Regional Office

CERTIFIED MAIL NO. 7002 2030 0007 9114 5180

Ms. Deborah Hoag, Environmental Division Manager
City of Reading
Environmental Division
815 Washington Street
Reading, PA 19601-3690

RECEIVED
SEP 08 2004
DEPT. OF PUBLIC WORKS

Current amended
permit!
Mercury is only
parameter
amended.

Re: Sewage
COR STP
NPDES Permit No. PA 0026549
Reading City, Berks County

Dear Ms. Hoag:

Your amendment is enclosed. Read the permit and the special conditions carefully.

A Discharge Monitoring Report (DMR) is included. The master DMR will be prepared and distributed by the U.S. Environmental Protection Agency (EPA) in the near future. Use the enclosed DMR Form until you receive a master from EPA. The reporting forms must be submitted to the Department and the EPA Regional Office as instructed in the permit and the enclosed Instruction Sheet.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.



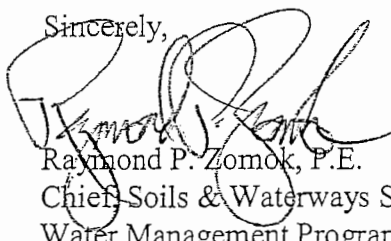
Ms. Deborah Hoag

- 2 -

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions, please call Ms. Marybeth Luttenberger of the Permits Section at 717-705-4815.

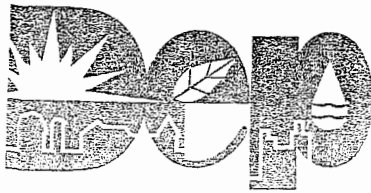
Sincerely,

A handwritten signature in black ink, appearing to read 'Raymond P. Zomok', is written over a circular stamp. The signature is fluid and cursive.

Raymond P. Zomok, P.E.
Chief Soils & Waterways Section
Water Management Program

Enclosures

cc: U.S. Environmental Protection Agency



Pennsylvania Department of Environmental Protection
WATER MANAGEMENT PROGRAM

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NPDES PERMIT NO. PA 0026549
Amendment No. 1

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

City of Reading
815 Washington Street
Reading, PA 19601-3960

is hereby authorized to discharge from a facility located in Reading City, Berks County to Schuylkill River in Watershed 3-C in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON MAY 1, 2001

AND EXPIRE AT MIDNIGHT, MAY 1, 2006

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms or conditions of this permit is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application.
3. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES Permit Application Form. In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions to this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal.
4. This permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

PERMIT ISSUED: April 10, 2001

BY: 

Raymond P. Zomok, P.E.
Acting Program Manager
Southcentral Regional Office

PERMIT AMENDED: SEP - 1 2004



PART A

LAT: 40°18'13"

LONG: 75°55'13"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 001, which receives wastewater from the wastewater treatment plant.

1. Numbers in parentheses () refer to Footnotes/Additional Requirements/Information on page 3.
2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s):
 - a. Composite samples may be taken before or after disinfection.
 - b. Grab samples shall be taken after disinfection.

DISCHARGE LIMITATIONS ⁽¹⁾								MONITORING REQUIREMENTS	
Discharge ⁽²⁾ Parameter	Mass Units (lbs/day) ⁽³⁾			Concentrations (mg/l) ⁽⁴⁾				(5)	Sample Type
	Average Monthly	Average Weekly	Maximum Daily	Average Monthly	Average Weekly	Maximum Daily	Inst. Maximum		
Flow (mgd)	Monitor & Report	XXX	Monitor & Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	XXX	From 6.0 to 9.0 inclusive				1/day	Grab
D.O.	XXX	XXX	XXX	Minimum of 5.0 mg/l at all times				1/day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.40	XXX	XXX	1.31	1/shift	Grab
Total Suspended Solids	7,130	10,696	XXX	30	45	XXX	60	1/day	24-hour comp
CBOD ₅ (5/1 to 10/31)	3,336	5,004	XXX	20	30	XXX	40	1/day	24-hour comp
CBOD ₅ (11/1 to 4/30)	4,170	6,255	XXX	25	40	XXX	50	1/day	24-hour comp
NH ₃ -N (5/1 to 10/31)	1,000	XXX	XXX	6.0	XXX	XXX	12	1/day	24-hour comp
NH ₃ -N (11/1 to 4/30)	3,000	XXX	XXX	18	XXX	XXX	24	1/day	24-hour comp
Color	XXX	XXX	XXX	186	XXX	XXX	465	1/day	24-hour comp
Fecal Coliform ⁽⁶⁾ (5/1 to 9/30)	XXX	XXX	XXX	200	XXX	XXX	XXX	1/day	Grab
Fecal Coliform ⁽⁶⁾ (10/1 to 4/30)	XXX	XXX	XXX	10,000	XXX	XXX	XXX	1/day	Grab
Total Mercury	0.055	XXX	XXX	0.00023	XXX	XXX	0.00046	1/week	24-hour comp